

CURRICULUM VITAE

Cleotilde Gonzalez
Dynamic Decision Making Laboratory
Social and Decision Sciences Department, Porter Hall 208
Carnegie Mellon University
Pittsburgh, PA 15213
412-268-6242 (office)
412-268-6938 (fax)
E-mail: coty@cmu.edu
Laboratory Web site: www.cmu.edu/ddmlab

Texas Tech University	Ph.D., 1996 College of Business Management Information Systems and Human Factors
Texas Tech University	M.Sc., 1992 College of Business Management Information Systems
Universidad de las Americas-Puebla, Mexico	M.B.A., 1990 College of Business
Universidad de las Americas-Puebla, Mexico	B.Sc., 1986 Computer Science College of Engineering

RESEARCH INTERESTS

Learning; Decisions from experience; Dynamic decision making; Cognitive modeling; Cognitive engineering; Decision support.

APPOINTMENTS

Research Professor	Department of Social and Decision Sciences (SDS) Carnegie Mellon University	2015-present
Founding Director	Dynamic Decision Making Laboratory Department of Social and Decision Sciences (SDS), Carnegie Mellon University	2002-present
Associate Research Professor	Department of Social and Decision Sciences (SDS), Carnegie Mellon University	2007-2015
Assistant Professor	Department of Social and Decision Sciences (SDS), Carnegie Mellon University	2000-2006
Postdoctoral Fellow	Tepper School of Business, Carnegie Mellon University	1997-2000
Associate Professor	Department of Computer Engineering, Universidad de las Americas, Puebla, Mexico	1997
Assistant Professor	Department of Computer Engineering, Universidad de las Americas, Puebla, Mexico	1996
Research Assistant	Computing and Information Technologies, Texas Tech University	1991-1995
Chair	Analysis and Programming Department, Universidad de las Americas, Puebla, Mexico	1987-1991
Systems Analyst	Analysis and Programming Department, Universidad de las Americas, Puebla, Mexico	1986

AFFILIATED FACULTY APPOINTMENTS

Affiliated Faculty, Carnegie Mellon University	
Societal Computing, institute for Software Research, School of Computer Science.	2021-present
Security and Privacy Institute, CyLab.	2019-present
Center for Neural Basis of Cognition., Psychology Department.	2007-present
Center for Behavioral Decision Research., Dietrich, Tepper, Heinz Colleges.	2006-present
Center for Cognitive Brain Imaging, Psychology Department.	2000-present
Human-Computer Interaction Institute, School of Computer Science.	2000-present
Center for Statistics and Applications in Forensic Evidence (CSAFE), Statistics Department.	2015-2017
Affiliated Faculty, University of Colorado.	
Center for Research on Training, Psychology Department.	2006-2017

HONORS AND AWARDS

2021	Committee member of the National Academy of Sciences (NAS) study on Enhancing Human-AI Teaming (Ehat). United States AirForce Research Laboratories.
2021	Lifetime Fellow of the Cognitive Science Society. Formal recognition at the 2021 Cognitive Science Society annual meeting, Vienna, Austria.
2021	Member-at-large of Division 3- Society for Experimental Psychology and Cognitive Science- of the American Psychological Association.
2020	Best Paper Award. International Conference on Decision and Game Theory for Security (GameSec; October 26-30, 2020) – “Exploiting Bounded Rationality in Risk-based Cyber Camouflage Games”.
2020	Best Paper Award. 53rd Hawaii International Conference on System Sciences (HICSS; January 8-10, 2020) - Digital Government Track - "Adaptive cyber deception: Cognitively informed signaling for cyber defense" (from Cyber Deception for Defense Minitrack).
2019	Board Member, Governing Board of the Cognitive Science Society. January 2019-December 2022. https://cognitivesciencesociety.org/about/
2015	Best Paper Award. Tenth International Conference on Semantic Technology for Intelligence, Defense, and Security (STIDS 2015). “Ontology-Based Adaptive Systems for Cyber Defense” Fairfax, VA. Nov. 18-20, 2015.
2014	Best Paper Award. IEEE Conference on Cognitive Methods in Situation Awareness and Decision Support (CogSIMA 2014). “Decision-Making in Abstract Trust Games: A User Interface Perspective.” San Antonio, TX. March 3-5, 2014.
2014	Committee member of <i>Human Factors Committee (HFC) of the Organization of Scientific Area Committees (OSAC) in Forensic Science.</i> National Institute of Standards and Technology (NIST). United States Department of Commerce.
2013	Fellow of the Human Factors and Ergonomics Society. Society. Formal recognition on October 1, 2013, at the HFES annual meeting. San Diego CA, USA.
2010	Runner up prize. Games first choice prediction competition. Competition focused on the prediction of behavior in repeated Market Entry Games. Instance-Based Learning model ranked second among 25 submissions: http://mail.sjdm.org/pipermail/jdm-society/2010-October/004647.html
2008	Making Connections Award. Academy of Management, OB Division. Meeting of the Academy of Management, Los Angeles, CA, USA.
2006	Best Paper Award. Behavior Representation in Modeling and Simulation (BRIMS) conference. Baltimore, MD. May 15-18, 2006.

RESEARCH GRANTS

- Co-I. *Cyber Autonomy through Robust Learning and Effective Human-Bot Teaming.* **Army Research Office, Multidisciplinary University Research Initiative (MURI).** In collaboration with Somesh Jha, University of Wisconsin; Lujo Bauer, CMU, and other universities in the USA and Australia. Approx. \$1.5M (CMU only) (2021–2026).
- Principal Investigator. *Advancing Learning Science for Improved Human-Machine Team Effectiveness.* **Air Force Research Laboratory,** Sub-award from L3 Technologies, Inc., Link, Simulation & Training. Approx. \$400K (2020-2021).
- Co-I. *An Integrated Theory of Human-Machine Teaming.* **Defense Advanced Research Projects Agency. DARPA’s ASIST program.** In collaboration with Anita Woolley and Henny Admoni, CMU. Approx. \$2.9M (CMU only) (2019–2024).
- Co-I. *Realizing Cyber Inception: Towards a Science of Personalized Deception for Cyber Defense.* **Army Research Office, Multidisciplinary University Research Initiative (MURI).** In collaboration with Milind Tambe, University of Southern California; Christian Lebiere, and Lujo Bauer, CMU, and others. Approx. \$1.9M (CMU only) (2017–2023).
- Principal Investigator. *Personalized Phishing Detection Training Using Cognitive Models.* **CyLab grant.** In collaboration with Christian Lebiere, CMU. \$50K. (2021-2022).
- Principal Investigator. *Scaling up Models of Decisions from Experience: Information and Incentives in Networks.* **Army Research Office,** Network Science Program. Approx. \$400K. (2017–2021).
- Co-I. *Homo SocioNeticus: Scaling the Cognitive Foundations of Online Social Behavior.* **Defense Advanced Research Projects Agency. DARPA’s SocialSim program.** In collaboration with Christian Lebiere & David Plaut, CMU, and other institutions. Approx. \$250K (Gonzalez only). (2017–2021).

8. Co-I. *Human Factors in Identification Decisions: A cross-cutting interdisciplinary approach*. **National Institute of Standards and Technology**. Part of the Center for Statistics and Applications in Forensic Evidence. Statistics Department, Carnegie Mellon University, and Iowa State University. Approx. \$150K. (2016-2017).
9. Principal Investigator. *An Integrated Learning Theory of Descriptive and Experience-Based Decisions*. **National Science Foundation**, Decision, Risk and Management Science. \$483K. (2015-2019).
10. Principal Investigator. MACRO: Models for Enabling Continuous Reconfigurability of Secure Missions. Cyber-Security Collaborative Research Alliance (CRA). **Army Research Laboratories**. Carnegie Mellon University. Lead of Behavioral Science research on cybersecurity. Approx. \$2.5M (C. Gonzalez only). (2013-2023).
11. Principal Investigator. *Integrating and Extending Decisions from Experience Phenomena with Instance-Based Learning Models*. **National Science Foundation**, Decision, Risk and Management Science. \$575K. (2012-2015).
12. Co-I. *Usable Automated Data Inference for End Users*. **Qatar National Research Fund**. National Priorities Research Program (NPRP-Cycle 4). In collaboration with Iliano Cervesato, Carnegie Mellon University-Qatar Campus. \$1.05M (C. Gonzalez only). (2012-2015).
13. Co-I. *Cognitive Models of Trust and Scalable Recommendation and Information Sources*. **Network Science Collaborative Technology Alliance (NS-CTA) of the Army Research Laboratories**. In collaboration with T. Höllerer and John O'Donovan, University of California, Santa Barbara. Approx. \$1.3M (C. Gonzalez only). (2011-2016).
14. Principal Investigator. *Understanding Conflict with a Socio-Cognitive Computational Approach*. **Defense Threat Reduction Agency**. In collaboration with Christian Lebiere, Carnegie Mellon University. \$1.75M over 5 years (2009-2014).
15. Principal Investigator. *Dynamic Decision Making in Mine Emergency Situations*. **National Institute for Occupational Safety and Health**. \$216K. (2009-2011).
16. Co-I. *Computer-aided Human Centric Cyber Situation Awareness*. **Army Research Office, Multidisciplinary University Research Initiative (MURI)**. In collaboration with Peng Liu, Penn State University, Arizona State, George Mason, and North Carolina State University. \$666K (C. Gonzalez only). (2009–2014).
17. Principal Investigator. *Decision Making and Diplomacy*. **Richard Lounsbery Foundation**, In collaboration with Dr. Kiron Skinner, Social and Decision Sciences, and Laurie Eisenberg, History department, Carnegie Mellon University. \$63K. (2007-2008).
18. Principal Investigator. *Hypothesis Generation and Feedback in Dynamic Decision Making*. **National Science Foundation**, Human and Social Dynamics Priority Area. In collaboration with Rickey Thomas, University of Oklahoma and Robert Hamm, University of Oklahoma Health Sciences Center. \$675K. (2006-2009).
19. Co-I. *Training Knowledge and Skills for the Networked Battlefield*. **Army Research Office, Multidisciplinary University Research Initiative (MURI)**. In collaboration with Alice Healy and Lyle Bourne, University of Colorado. \$887K (C. Gonzalez only). (2005–2009).
20. Co-I. *Learning from the Past: Improving Estimation of Future Construction Projects*. PITA program, **Institute for Complex Engineered Systems, Carnegie Mellon University**. In collaboration with Burcu Akinci, ECE, Carnegie Mellon University. \$60K (C. Gonzalez only). (2005–2006).
21. Co-I. *Automated Communication Analysis for Interactive Situation Awareness Assessment*. **Office of Naval Research**, Small Business Innovation Research. In collaboration with Mica Endsley and Cheryl Bolstad, SA Technologies. \$60K. (2004).
22. Principal Investigator. *Cognitive Process Modeling and Measurement in Dynamic Decision Making*. **Army Research Laboratories**, Collaborative Technology Alliances, Advanced Decision Architectures Group. In collaboration with Mica Endsley, SA Technologies. \$3.04M. (2001–2009).
23. Principal Investigator. *Perception and Attention Effects on Learning Dynamic Decision Making Tasks*. **Carnegie Mellon University Faculty Development Fund**. \$5K. (2001).
24. Co-I. Cognitive, Biological and Computational Analyses of Automaticity in Complex Cognition. Project: *Automaticity development and transfer in real-time dynamic decision making*. **Office of Naval Research, Multidisciplinary University Research Initiative (MURI)**. In collaboration with Marcel Just, Carnegie Mellon University, and Walter Schneider, University of Pittsburgh. \$1.3M (C. Gonzalez only). (2001–2006).

TRAINING GRANTS

1. Faculty Advisor. *At the Interface of Behavioral and Biomedical Sciences*. **National Institute of Health (NIGMS)**, training grant. In collaboration with Dr. Julie Fiez, University of Pittsburgh and Dr. Lori Holt, Carnegie Mellon University (2007-2012).
2. Faculty Advisor. *Training in Combined Computational and Behavioral Approaches to Cognition*. **National Institute of Mental Health**, training grant. In collaboration with Dr. Lynne Reder, Carnegie Mellon University (2002–2008).

JOURNAL PAPERS AND BOOK CHAPTERS

2021

1. Harman, J. L., Yu, M., Konstantinidis, E., & **Gonzalez, C.** (2021, March 20). How to Use a Multi-Criteria Comparison Procedure to Improve Modeling Competitions. *Psychological Review*. In press. <https://doi.org/10.1037/rev0000274>.
2. Nguyen, T.N. & **Gonzalez, C.** (2021). Theory of Mind from Observation in Cognitive Models and Humans. *Topics in Cognitive Science*. TopiCS. Accepted.
3. Zhang, H., Moisan, F., & **Gonzalez, C.** (2021). Rock-Paper-Scissors Play: Beyond the Win-Stay/Lose-Change Strategy. Special Issue: Psychological Perspectives on Simple Games. *Games*. Accepted.

2020

4. Aggarwal, P., Gutierrez, M., Kiekintveld, C., Bosansky, B., **Gonzalez, C.** (2020). Evaluating Adaptive Deception Strategies for Cyber Defense with Human Adversaries. To appear in Kamhoua, C., Kiekintveld, C., Fang, F., & Zhu, Q., *Game Theory and Machine Learning for Cyber Security*. IEEE Press.
5. Aggarwal, P., Moisan, F., **Gonzalez, C.**, & Dutt, V. (2020). Learning About the Effects of Alert Uncertainty in Attack and Defend Decisions via Cognitive Modeling. *Human Factors*, Vol. 00, No. 0, pp. 1-17, DOI:10.1177/0018720820945425.
6. Aggarwal P., **Gonzalez C.**, Dutt V. (2020). HackIt: A Real-Time Simulation Tool for Studying Real-World Cyberattacks in the Laboratory. In: Gupta B., Perez G., Agrawal D., Gupta D. (eds.) *Handbook of Computer Networks and Cyber Security*. Springer, Cham. doi.org/10.1007/978-3-030-22277-2_39.
7. Cranford, E.A., **Gonzalez, C.**, Aggarwal, P., Cooney, S., Tambe, M., & Lebiere, C. (2020). Toward personalized deceptive signaling for cyber defense using cognitive models. *Topics in Cognitive Science*, 12, 992-1011. Wiley-Blackwell. <https://doi.org/10.1111/tops.12513>.
8. Mahmoodi, K., West, B. J., & **Gonzalez, C.**, (2020). Selfis Algorithm and Emergence of Collective Intelligence. *Journal of Complex Networks*. Volume 8, Issue 3, June 2020, cnaa019, <https://doi.org/10.1093/comnet/cnaa019>.
9. Rajivan, P., Aharonov-Majar, E., **Gonzalez, C.** (2020). Update now or later? Effects of experience, cost, and risk preference on update decisions. *Journal of Cybersecurity*., 6(1). doi.org/10.1093/cybsec/tyaa002.
10. Veksler, V. D.; Buchler, N., Lafleur, C. G., Yu, M, S., Lebiere, L., & Gonzalez C., (2020). Cognitive Models in Cybersecurity: Learning from Expert Analysts and Predicting Attacker Behavior. *Frontiers in Psychology, Cognition*. In Press.

2019

11. Aharonov-Majar, E., Rajivan, P., **Gonzalez, C.**, Erev, I. (2019). The impact of variability and prechoice experience on taking safety measures: The case of security updates. *Journal of Behavioral Decision Making*. 2019;1-12, <https://doi.org/10.1002/bdm.2131>
12. De La Maza, C., Davis A. **Gonzalez, C.**, Azevedo I. L. (2019). Understanding cumulative Risk Perception from Judgments and Choices: An Application to Flood Risks. *Risk Analysis*. Volume 39, Issue 2. DOI: 10.1111/risa.13206
13. Qi L. & **Gonzalez, C.** (2019). Math matters: Mathematical Knowledge Plays an Essential Role in Chinese Undergraduates' Stock-and-Flow Task Performance. *System Dynamics Review*. DOI: 10.1002/sdr.1640

2018

14. **Gonzalez, C.**, Sanchez-Segura, M., Dugarte-Pena, G., Medina-Dominguez, F. (2018). Valance Matters in Judgments of Stock Accumulation in Blood Glucose Control and Other Global Problems. *Journal of Dynamic Decision Making*. 4(1). doi.org/10.11588/jddm.2018.1.49607
15. Buchler, N., Rajivan, P., Marusich, L. R., Lightner, L., **Gonzalez, C.** (2018) Sociometrics and Observational Assessment of Teaming and Leadership in a Cyber Security Defense Competition. *Computers and Security*, 73, 114-136. doi: 10.1016/j.cose.2017.10.013.
16. Curtis, S., Rajivan, P., Jones, D., & **Gonzalez, C.** (2018). Phishing attempts among the Dark Triad: Patterns of attack and vulnerability. *Computers in Human Behavior*, 87, 174-182. doi.org/10.1016/j.chb.2018.05.037.
17. Martin, J., Lejarraga, T. & **Gonzalez, C.** (2018). The Effects of Motivation and Memory on the Weighting of Reference Prices. *Journal of Economic Psychology*. 65, 16-25. doi.org/10.1016/j.joep.2018.01.005.
18. Moisan, F., ten Brincke, R., Murphy, R. O., **Gonzalez, C.**, (2018). Not all Prisoner's Dilemma Games are Equal: Incentives, Social Preferences, and Cooperation. *Decision*. 5(4), 306-322. doi.org/10.1037/dec0000079.
19. Rajivan, P. & **Gonzalez, C.** (2018). Creative Persuasion: A study on Adversarial Behaviors and Strategies in Phishing Attacks. *Frontiers in Psychology-Cognitive Science*, 9, 125. doi: 10.3389/fpsyg.2018.00135
20. Rajivan, P., & **Gonzalez, C.** (2018) Human Factors in Cyber Security Defense. *Human Factors and Ergonomics for the Gulf Cooperation Council: Processes, Technologies, and Practices*. 85-104. Boca Raton, CRC Press. ISBN: 9781498781909.
21. Schaffer, J., O'Donovan J., Marusich, L., Yu, M., **Gonzalez, C.**, & Hollerer, T. (2018). A Study of Dynamic Information Display and Decision-making in Abstract Trust Games. *International Journal of Human-Computer Studies*. 113, 1-14. doi.org/10.1016/j.ijhcs.2018.01.002.

2017

22. **Gonzalez, C.** (2017). Decision Making: A Cognitive Science Perspective. Chapter 13, pp. 249-263. In Chipman, S. (Ed), *The Oxford Handbook of Cognitive Science*. ISBN: 978-0-199-84219-3. Oxford University Press. Published online Nov 2014. 10.1093/oxfordhb/9780199842193.013.6.
23. **Gonzalez, C.** Ben-Asher, N. & Morrison, D. (2017). Dynamics of Decision Making in Cyber Defense: Using Multi-Agent Cognitive Modeling to Understand CyberWar. P. Liu et al. (Eds.): *Cyber Situation Awareness*. LNCS 10030, PP. 113-127, 2017. doi: 10.1007/978-3-319-61152-5_5, Springer International Publishing.
24. **Gonzalez, C.**, Fakhari, P. & Busemeyer, J. (2017). Dynamic Decision Making: Learning Processes and New Research Directions. *Human Factors-At the Forefront*. doi:10.1177/0018720817710347. Published online May, 2017.

25. **Gonzalez, C.**, Qi, L., Sriwattanakomen, N., & Chrabaszcz, J. (2017). Graphical features of flow behavior and the stock and flow failure. *System Dynamics Review*. 33, 59-70.
26. Ashby, N. J. S. & **Gonzalez, C.** (2017). The Influence of Time Estimation and Time Saving Preferences on Learning to Make Temporally-dependent Decisions from Experience. *Journal of Behavioral Decision Making*. Doi:10.1002/bdm.2006. Published online Mar 2017.
27. Harman, J. L., Weinhardt, J. M., & **Gonzalez, C.** (2017). Maximizing scales do not predict maximizing behavior in decisions from experience. *Journal of Behavioral Decision Making*. doi: 10.1002/bdm.2070. Published online Dec 2017.
28. Moisan, F. & **Gonzalez, C.** (2017). Security under Uncertainty: Adaptive Attackers Are More Challenging to Human Defenders than Random Attackers. *Frontiers in Psychology*. June 2017, Volume 8, Article 982, pp: 1-10.

2016

29. **Gonzalez, C.** & Dutt, V. (2016). Exploration and Exploitation during information search and consequential choice. *Journal of Dynamic Decision Making*. 2, 2: 1-8.
30. **Gonzalez, C.** & Mehlhorn, K. (2016). Framing from experience: Cognitive processes and predictions of risky choice. *Cognitive Science*. 40: 1163-1191.
31. **Gonzalez, C.** & Meyer, J. (2016). Integrating Trends in Decision Making Research. *Journal of Cognitive Engineering and Decision Making*. Published online, pp. 1-2, DOI: 10.1177/1555343416655256.
32. Buchler, N.; Fitzhugh, S.; Marusich, L.R.; Ungvarsky, D.; Lebiere, C.; **Gonzalez, C.** (2016). Mission Command in the Age of Network-Enabled Operations: Social Network Analysis of Information Sharing and Situation Awareness. *Frontiers in Psychology, section Cognitive Science*. Vol. 7 (937), 22 June 2016, DOI: 10.3389/fpsyg.2016.00937
33. Fischer, H., & **Gonzalez, C.** (2016). Making sense of dynamic systems: How our understanding of stocks and flows depends on a global perspective. *Cognitive Science*, 40, 496-512.
34. Marusich, L. R., Bakdash, J. Z., Onal, E., Yu, M. S., Schaffer, J., O'Donovan, J., Hollerer, T., Buchler, N., **Gonzalez, C.** (2016). Effects of Information Availability on Command and Control Decision Making Performance, Trust, and Situation Awareness. *Human Factors: The Journal of the Human Factors and Ergonomics Society*. 58(2). 301-321. doi: 10.1177/0018720815619515.
35. Newell, B., Kary, A., Moore, C., & **Gonzalez, C.** (2016). Managing the Budget: Stock and Flow Reasoning and the CO2 Accumulation Problem. *TOPICS in Cognitive Science*. Vol. 8 (1), January 2016, 138-159 DOI: 10.1111/tops.12176.

2015

36. **Gonzalez, C.**, Ben-Asher, N., Martin, J. & Dutt, V. (2015). A Cognitive Model of Dynamic Cooperation with Varied Interdependency Information. *Cognitive Science*, 39, 457-495.
37. Ben-Asher, N. & **Gonzalez C.** (2015). Effects of Cyber Security Knowledge on Attack Detection. *Computers in Human Behavior*. 48: 51-61.
38. Dutt, V. & **Gonzalez, C.** (2015). Accounting for Outcome and Process Measures and the Effects of Model Calibration. *Journal of Dynamic Decision Making*. 1,2:1-10.
39. Harman, J. L. & **Gonzalez, C.** (2015). Allais from Experience: Choice consistency, rare events, and common consequences in repeated decisions. *Journal of Behavioral Decision Making*. 28: 382-394. DOI: 10.1002/bdm.1855.
40. Juvina, I., Lebiere, C., **Gonzalez, C.** (2015), Modeling Trust Dynamics in Strategic Interaction. *The Journal of Applied Research in Memory and Cognition*. 4:197-211.
41. Mehlhorn, K., Newell, B. R., Lee, M., Todd, P. M., Morgan, K., Braithwaite, V. A., Hausmann, D., Fiedler K., & **Gonzalez, C.** (2015). Unpacking the Exploration-Exploitation Tradeoff: A Synthesis of Human and Animal Literatures. *Decision*. Vol. 2(3), Jul 2015, 191-215 <http://dx.doi.org/10.1037/dec0000033>.
42. Qi, L. & **Gonzalez, C.** (2015). Mathematical knowledge is related to understanding stocks and flows: Results from two nations. *System Dynamics Review*. Vol 31, No 3: 97-114. DOI: 10.1002/sdr.1539
43. Weinhardt, J. M., Hendijani, R., Harman, J. L., Steel, P., & **Gonzalez, C.** (2015). How Analytic Reasoning Style and Global Thinking Relate to Understanding Stocks and Flows. *Journal of Operations Management*. 39:23-30.

2014

44. **Gonzalez, C.**; Ben-Asher, N.; Oltramari, A.; Lebiere, C. (2014). Cognition and Technology. In Kott, C., Wang, A. & R. Erbacher (eds.), *Cyber defense and situational awareness*. ISBN 978-3-319-11390-6. Springer International Publishing Switzerland 2014. DOI 10.1007/978-3-319-11391-3.
45. Dutt, V., Arlo-Costa, H., Helzner, J., & **Gonzalez, C.** (2014). The Description-Experience Gap in Risky and Ambiguous Gambles. *Journal of Behavioral Decision Making*. 27: 316-327.
46. Kumar, S., Cervesato, I., & **Gonzalez, C.** (2014). How people do Relational Reasoning? Role of Problem Complexity and Domain Familiarity. *Computers in Human Behavior*. 41. 319-326.
47. Lejarraga, T., Lejarraga, J. & **Gonzalez, C.** (2014). Decisions from Experience: How Groups and Individuals Adapt to Change. *Memory and Cognition*. 42, 8: 1384-1397.

48. Martin, J.M., **Gonzalez, C.**, Juvina, I., & Lebiere, C., (2014). A Description-Experience Gap in Social Interactions: Information about Interdependence and Its Effects on Cooperation. *Journal of Behavioral Decision Making*. 27:349-362.
49. Mehlhorn, K., Ben-Asher, N., Dutt, V. & **Gonzalez, C.** (2014). Observed Variability and Values Matter: Towards a Better Understanding of Information Search and Decisions from Experience. *Journal of Behavioral Decision Making*. 27: 328-339.
50. Yu, M., Saleem, M. & **Gonzalez, C.** (2014). Developing Trust: First Impressions and Experience. *Journal of Economic Psychology*. 43. 16-29.

2013

51. **Gonzalez, C.** & Lebiere, C. (2013). Cognitive Architectures Combine Formal and Heuristic Approaches. Commentary. *Behavioral and Brain Sciences*. 36(3). 285-285.
52. **Gonzalez, C.**, Martin, J.M., Minshew & Behrmann, M. (2013). Practice makes improvement: How adults with autism out-perform others in a naturalistic visual search task. *Journal of Autism and Developmental Disorders*. Vol. 43, Issue 10, 2259-2268.
53. **Gonzalez, C.**, Dutt, V., & Lebiere, C. (2013). Validating Instance-Based Learning Mechanisms Outside of ACT-R. *Journal of Computational Science*, 4, pp. 262-268. DOI information: 10.1016/j.jocs.2011.12.001.
54. **Gonzalez, C.** (2013). Cognitive Science: An Introduction. Chapter 6 (pp. 61-67). In Lanzer, P. (Ed), *Catheter-Based Cardiovascular Interventions*. ISBN: 978-3-642-27675-0. Springer-Verlag Berlin Heidelberg.
55. **Gonzalez, C.**, Saner, L. & Eisenberg, L. (2013). Learning to Stand in the other's Shoes: A Computer Video Game Experience of the Israeli-Palestinian Conflict. *Social Science Computer Review*. Volume 31, Issue 2, 236- 243. DOI: 10.1177/0894439312453979
56. **Gonzalez, C.** (2013). The boundaries of Instance-Based Learning Theory for explaining decisions from experience. Chapter 5, pp. 73-98. In Pammi and Srinivasan (Eds.), *Decision Making: Neural and Behavioural Approaches*. Vol. 202, Progress in Brain Research. Elsevier. ISBN 978-0-444-62604-2.
57. **Gonzalez, C.** (2013). From Individual Decisions from Experience to Behavioral Game Theory: Lessons for Cyber Security. Chapter 2 in Jajodia, S., Ghosh A., Subrahmanian V.S., Swarup, V., Wang C., & Sean-Wang, X. (Eds), *Moving Target Defense II*. Vol. 100, 73-86, DOI: 10.1007/978-1-4614-5416-8_4.
58. Dutt, V., Ahn, Y., & **Gonzalez, C.** (2013). Cyber Situation Awareness: Modeling Detection of Cyber Attacks with Instance-Based Learning Theory. *Human Factors*. 55(3). 605-618.
59. Dutt, V. & **Gonzalez, C.** (2013). Reducing the Linear Perception of Nonlinearity: Use of a Physical Representation. *Journal of Behavioral Decision Making*. 26, 51-67.
60. Dutt, V. & **Gonzalez, C.** (2013). Enabling eco-friendly choices by relying on the proportional-thinking heuristic. *Sustainability*. Vol. 5, 357-371; doi:10.3390/su5010357
61. Dutt, V., & **Gonzalez, C.** (2013). Responding linearly in nonlinear problems: Application to earth's climate. In Mitchell Carpenter and Everett J. Shelton (Eds.). *Carbon Dioxide Emissions: New Research*, Hauppauge, New York: Nova Science Publishers (pp. 15-30).
62. Dutt, V., & **Gonzalez, C.** (2013). Climate Risk Communication: Effects of cost, timing, and probability of climate consequences in decisions from description and experience. In Dennis C.L. Fung (Ed.). *Psychology of Policy Making*, Hauppauge, New York: Nova Science Publishers (pp. 23-48).
63. Juvina, I., Saleem M., **Gonzalez, C.**, & Lebiere, C., (2013). Reciprocal Trust Mediates Deep Transfer of Learning Between Games of Strategic Interaction. *Organizational Behavior and Human Decision Processes*. Special Issue in Social Dilemmas. 120(2), 206-215.
64. Madhavan, P., **Gonzalez, C.**, Brown, J. (2013). The Impact of Target Base Rate on Training and Transfer of Learning in Airline Luggage Screening: An Examination of Three Base Rates Scenarios. *Applied Cognitive Psychology*. Published online in Wiley Online Library (wileyonlinelibrary.com) DOI: 10.1002/acp.2905.
65. Martin, J.M., Juvina, I., Lebiere, C., & **Gonzalez, C.** (2013). The Effects of Individual and Context on Aggression in Repeated Social Interaction. *Applied Ergonomics*. 44(5), 710-718.
66. Neo, W., Yu, M., Weber, R., & **Gonzalez, C.** (2013). The Effects of Time Delay in Reciprocity Games. *Journal of Economic Psychology*. 34, 20-35.
67. Proctor, R. W., Yamaguchi, M., Dutt, V., & **Gonzalez C.** (2013). Dissociation of S-R Compatibility and Simon Effects with Mixed Tasks and Mappings. *Journal of Experimental Psychology: Human Perception and Performance*, 39(2), 593-609.
68. Yu, M. & **Gonzalez, C.** (2013). Stopping decisions: Information order effects on non-focal evaluations. *Human Factors*, Vol. 55, 4, pp. 732-746.

2012

69. **Gonzalez, C.** (2012). Training Decisions from Experience with Decision Making Games. In Durlach, P. & Lesgold, A. M. (Eds), *Adaptive Technologies for Training and Education*. Cambridge University Press. ISBN 978-0-521-76903-7. 167-178.

70. **Gonzalez, C.** (2012). Cognitive Models of Training Principles and the Instance-Based Learning Tool. In Healy, A. F. & Bourne, L. E. Jr. (Eds.), *Training Cognition: Optimizing Efficiency, Durability, and Generalizability*. Psychology Press. ISBN 978-1-84872-950-6. 181-200.
 71. **Gonzalez, C. & Dutt, V.** (2012). Refuting data aggregation arguments and how the Instance-Based Learning model stands criticism: A reply to Hills and Hertwig (2012). *Psychological Review*. 119(4), 893-898.
 72. **Gonzalez, C., Kampf R., & Martin, J.** (2012). Action Diversity of Israeli Students in a Simulation of the Israeli-Palestinian Conflict. *Computers in Human Behavior*. 28(1), 233-240.
 73. **Gonzalez, C. & Saner, L. D.,** (2012). Thinking or Feeling? Effects of Decision Making Personality in Conflict Resolution. In Brincken, J. V. and Konietzny, H. (Eds). *Emotional Gaming*. ISBN 978-940388-24-7, 77-89.
 74. **Gonzalez, C. & Wong, H.** (2012). Understanding Stocks and Flows through Analogy. *System Dynamics Review*. 28(1), 3-27.
 75. Dutt, V. & **Gonzalez, C.** (2012). Decisions from experience reduces misconceptions about climate change. *Journal of Environmental Psychology*. 32, 19-29.
 76. Dutt, V. & **Gonzalez, C.** (2012). The Role of Inertia in Modeling Decisions from Experience with Instance-Based Learning. *Front. Psychology*, 3, 177, doi: 10.3389/fpsyg.2012.00177
 77. Dutt, V. & **Gonzalez, C.** (2012). Making Instance-Based Learning Theory Usable and Understandable: The Instance-Based Learning Tool. *Computers in Human Behavior*. 28(4), 1227-1240.
 78. Dutt, V. & **Gonzalez, C.** (2012). Human Control of Climate Change. *Climatic Change*, 111(2), 497-518.
 79. Dutt, V. & **Gonzalez, C.** (2012). Why do we want to delay actions on climate change? Effects of probability and timing of climate consequences. *Journal of Behavioral Decision Making*, 25, 2, 154-164.
 80. Dutt, V., & **Gonzalez, C.** (2012). Cyber Situation Awareness through Instance-Based Learning: Modeling the Security Analyst in a Cyber-Attack scenario. Chapter 8 in C. Onwubiko & T. Owens (Eds.), *Situational Awareness in Computer Network Defense: Principles, Methods and Applications*, IGI Global, doi: 10.4018/978-1-46660-104-8.
 81. Lejarraga, T., Dutt, V., & **Gonzalez, C.** (2012). Instance-based Learning: A General model of Repeated Binary Choice. *Journal of Behavioral Decision Making*, 25, 2, 143-153.
 82. Lejarraga, T., Hertwig, R., & **Gonzalez, C.** (2012). Decisions From Experience: Do Loss and Risk Aversion Affect Search for Information?. *Cognition*. 124, 334-342.
 83. Madhavan, P., Lacson, F. C., **Gonzalez, C.,** & Brennan, P. C. (2012). The Role of Incentive Framing on Training and Transfer of Learning in a visual Search Task. *Journal of Applied Cognitive Psychology*, 26, 194-206.
 84. Yu, M., Lejarraga, T., & **Gonzalez, C.** (2012). Context-Specific, Scenario-Based Risk Scales. *Risk Analysis*. 32(12), 2166-2181.
- 2011**
85. **Gonzalez, C. & Dutt, V.** (2011). Instance-Based Learning: Integrating Decisions from Experience in Sampling and Repeated Choice Paradigms. *Psychological Review*, 118(4), 523-551, doi: 10.1037/a0024558.
 86. **Gonzalez, C.,** Best, B., Healy, A., Kole, J. & Bourne L. (2011). A cognitive modeling account of fatigue. *Journal of Cognitive Systems Research*, 12(1), 19-32.
 87. **Gonzalez, C. & Dutt, V.** (2011). A generic Dynamic Control Task for Behavioral Research and Education. *Computers in Human Behavior*. 27(5), 1904-1914.
 88. **Gonzalez, C.,** Dutt, V., & Lejarraga, T. (2011). A loser can be a winner: Comparisons of two instance-based learning models in a market entry competition. *Games*, 2(1), 136-162.
 89. **Gonzalez, C. & Madhavan, P.** (2011). Diversity during practice enhances detection of novel stimuli. *Journal of Cognitive Psychology*. 23(3), 342-350.
 90. **Gonzalez, C.,** & Martin, J. M. (2011). Dynamic decision making and cultural affiliation. In R. W. Proctor, S. Noff, & Y. Yih (Eds.), *Cultural factors in Systems Design: Decision making and Action*. Boca Raton, FL: CRC Press: Taylor & Francis Group. ISBN: 978-1-4398-4646-9 , 33-52.
 91. **Gonzalez, C. & Martin, J. M.** (2011). Scaling up Instance-Based Learning Theory to account for social interactions. *Negotiation and Conflict Management Research*, 4(2), 110-128.
 92. Brunstein, A. & **Gonzalez, C.** (2011). Preparing for Novelty with Diverse Training. *Applied Cognitive Psychology*. 25(5), 682-691.
 93. Juvina, I., Lebiere, C., Martin, J. M., & **Gonzalez, C.** (2011). Intergroup prisoner's dilemma with intragroup power dynamics. *Games*, 2, 21-51.
 94. Lejarraga, T. & **Gonzalez, C.** (2011). Effects of feedback and complexity on repeated decisions from description. *Organizational Behavior and Human Decision Processes*. 116, 286-295.
 95. Schmid, U., Ragni, M., **Gonzalez, C.,** Funke, J. (2011). The Challenge of Complexity in Cognitive Systems. *Cognitive Systems Research*, 12, 211-218.

96. Strater, L. D., Cuevas, H. M., Scielzo, S., Connors, E. S. **Gonzalez, C.**, Ungvarsky, D. M., & Endsley, M. R. (2011). An Investigation of Technology- Mediated Ad Hoc Team Operations: Consideration of Components of Situation Awareness. In Mosier and Fischer (Eds.), *Informed by Knowledge: Expert Performance in Complex Situations* (149-164).

2010

97. **Gonzalez, C.** & Czlonka, L. (2010). Games for Peace: Empirical Investigations with PeaceMaker. In J. Cannon-Bowers and C. Bowers (Eds.), *Serious Game Design and Development: Technologies for Training and Learning*. Hershey, PA: IGI Global. ISBN: 978-1-61520-739-8, 134-149.
98. **Gonzalez, C.**, Thomas, R., & Madhavan, P. (2010). The Effects of Conjunctive Search and Response Mappings on Automatic Performance in a Complex Visual Task. In Andrews, D., Herz, R. P. & Wolf, M. B. (Eds.), *Human Factors Issues in Combat Identification*. Ashgate Publishing Limited. ISBN: 978-0-7546-7767-3, 85-98.
99. Brunstein, A., **Gonzalez, C.**, & Kanter, S.* (2010). Effects of Domain Experience in the Stock-Flow Failure. *System Dynamics Review*, 24(2), 347-354. * Author order is alphabetical.
100. Kiziltas, S., Akinci, B., & **Gonzalez, C.** (2010). Comparison of Expert and Novice Cost Estimators' Behaviors in information Pull and Push Methods. *Canadian Journal of Civil Engineering*. 37 (2), 290-301.
101. Lebiere, C., **Gonzalez, C.**, Warwick, W. (2010). Cognitive Architectures, Model Comparison, and Artificial General Intelligence. *Journal of Artificial General Intelligence*. ISSN: 1946-0163. Volume 2, Number 2, 1-19.
102. Madhavan, P. & **Gonzalez, C.** (2010). The Relationship Between Stimulus-Response Mappings and the Detection of Novel Stimuli in a Simulated Luggage Screening Task. *Theoretical Issues in Ergonomics Science*, 11(5), 461-473.
103. Young, M., Healy, A.F., **Gonzalez, C.**, Dutt, V., & Bourne, L. (2010). Effects of Training with Added Difficulties on RADAR Detection. *Applied Cognitive Psychology*. 24, 1-22.

2009

104. **Gonzalez, C.** & Brunstein, A. (2009). Dynamic Decision Making and Training for Disaster Triage. *The Journal of Trauma, Injury, Infection and Critical Care*. 67 (2), 100-105.
105. **Gonzalez, C.** & Saner, L., Endsley, M., Bolstad, C. A., Cuevas, H. M. (2009). Modeling and Measuring Situation Awareness in Individuals and Teams. In McDermott P. & Allender L. (Eds.), *Advanced Decisions Architectures for the Warfighter: Foundations and Technology*, 257-272.
106. Cronin, M., **Gonzalez, C.**, & Serman, J. (2009). Why don't well-educated adults understand accumulation? A challenge to researchers, educators and citizens. *Organizational Behavior and Human Decision Processes*. 108: 116-130.
107. Lebiere, C., **Gonzalez, C.**, & Warwick, W. (2009). Convergence and Constraints Revealed in a Qualitative Model Comparison. *Journal of Cognitive Engineering and Decision Making*, 3(2), 131-155.
108. Saner, L. D., Bolstad, C. A., **Gonzalez, C.** & Cuevas, H. M. (2009). Measuring and Predicting Shared Situation Awareness in Teams. *Journal of Cognitive Engineering and Decision Making*. 3(3), 280-308.

2008

109. **Gonzalez, C.**, & Thomas, R. (2008). Effects of automatic detection on dynamic decision making. *Journal of Cognitive Engineering and Decision Making*. 2(4), 328-348.

2007

110. **Gonzalez, C.**, & Vrbin, C. (2007). Dynamic simulation of medical diagnosis: Learning in the medical decision making and learning environment MEDIC. In A. Holzinger (Ed.), *Usability & HCI for medicine and health care: 3rd Symposium of the Austrian Computer Society (Lecture Notes in Computer Science, Vol. 4799)*. ISBN: 978-3-540-76804-3, 289-302.
111. **Gonzalez, C.**, & Wimisberg, J. (2007). Situation awareness in dynamic decision-making: Effects of practice and cognitive abilities. *Journal of Cognitive Engineering and Decision Making*, 1(1), 56-74.
112. Cronin, M., & **Gonzalez, C.** (2007). Understanding the building blocks of dynamic systems. *System Dynamics Review*, 23(1), 1-17.
113. Graham, J., **Gonzalez, C.**, & Schneider, M. (2007). A dynamic network analysis of an organization with expertise out of context. In R. Hoffman (Ed.), *Expertise out of context*. New York: Lawrence Erlbaum Associates. ISBN: 978-0-8058-5509-8, 385-402.

2006

114. Graham, J., Zheng, L., & **Gonzalez, C.** (2006). A cognitive approach to game usability and design: Mental model development in novice real-time strategy gamers. *Cyber Psychology & Behavior*, 9(3), 361-366.

2005

115. **Gonzalez, C.** (2005). Decision support for real-time dynamic decision making tasks. *Organizational Behavior and Human Decision Processes*, 96, 142-154.
116. **Gonzalez, C.** (2005). The relationship between task workload and cognitive abilities in dynamic decision making. *Human Factors*, 47(1), 92-101.

117. **Gonzalez, C.**, Dana, J., Koshino, H., & Just, M. (2005). The framing effect and risky decisions: Examining cognitive functions with fMRI. *Journal of Economic Psychology*, 26(1), 1–20.
118. **Gonzalez, C.**, & Lebiere, C. (2005). Instance-based cognitive models of decision making. In D. J. Zizzo (Ed.), *Transfer of knowledge in economic decision making*. New York: Palgrave MacMillan. ISBN: 1403941548, 148-165.
119. **Gonzalez, C.**, Thomas, R., & Vanyukov, P. (2005). The relationships between cognitive ability and dynamic decision making. *Intelligence*, 33(2), 169–186.
120. **Gonzalez, C.**, Vanyukov, P., & Martin, M. K. (2005). The use of microworlds to study dynamic decision making. *Computers in Human Behavior*, 21, 273–286.

2004

121. **Gonzalez, C.** (2004). Learning to make decisions in dynamic environments: Effects of time constraints and cognitive abilities. *Human Factors*, 46(3), 449–460.

2003

122. **Gonzalez, C.**, & Quesada, J. (2003). Learning in dynamic decision making: The recognition process. *Computational and Mathematical Organization Theory*, 9(4), 287–304.
123. **Gonzalez, C.**, Lerch, F. J., & Lebiere, C. (2003). Instance-based learning in dynamic decision making. *Cognitive Science*, 27, 591–635.

1999

124. **Gonzalez, C.**, & Kasper, G. (1999). Animation in user interfaces. In K. E. Kendall (Ed.), *Emerging information technologies: Improving decisions, cooperation, and infrastructure*. Thousand Oaks, CA: Sage Publications. ISBN: 0761917497, 45-74.

1997

125. **Gonzalez, C.**, & Kasper, G. (1997). Animation in user interfaces designed for decision support systems: The effects of image abstraction, transition, and interactivity on decision quality. *Decision Sciences Journal*, 28(4), 793–823.

1995

126. **Gonzalez, C.** (1995). Visual design of interaction, dialog, or interface. *SIGCHI Bulletin*, 27(1), 12–13.

Working Papers.

- Gonzalez, C., Harman, J., & Hagmann, D. Avoiding difficult choices: emotionality, complexity and framing effects.
- Gonzalez, C., Dutt, V. & Ben-Asher, N. When do we stop information search? Satisficing in Instance-Based Learning Theory.
- Gonzalez, C., Mahmoodi, K., Singh, K. Emergence of Cooperation by Trusting Other’s decisions.
- Aggarwal, P., Thakoor, O., Jabbari, S., Cranford, E. A., Lebiere, C., Tambe, M. Gonzalez, C. Designing Effective Masking Strategies for Cyberdefense through Human Experimentation and Cognitive Models.
- Aggarwal, P., Du, Y., Singh, K., Utrani, S, Dutt, V., Gonzalez, C. Evaluating the effectiveness of Deploying Honeypots in Different Network Topologies.
- Ben-Asher, N., Aharonov, E., & Gonzalez, C. Learning to Take Protective Actions against Adverse Events.
- De La Maza, C., Davis, A., Gonzalez C., Azevedo, I. Discovering Preference Structure from Choice Data.
- Hagmann, D., Harman, J. & Gonzalez, C. Wait, Wait... Don’t Tell Me: Repeated Choices With Clustered Feedback.
- Harman, J. L., Mehlhorn, K., & Gonzalez, C. A cognitive explanation of the integration of likelihood and outcome in risky choice.
- Hart, E., Yu, M. & Gonzalez, C. Trust at a Second Glance: Correcting Impressions of Untrustworthiness through Information Seeking and Perspective Taking.
- Kaufman, G., Jarbo, K., & Gonzalez, C. Bias at Play: Investigating Sensitization and Desensitization to Diversity and Inclusion via Interactions with Bots.
- Konstantinidis, E., Harman, J., & Gonzalez, C. Memory Processes Modulate Choice Adaptation in Dynamic Environments.
- McCormick, E., Cheyette, S., & Gonzalez, C. Choice Adaptation to Changing Environments: Trends, Feedback and Awareness of Change.
- Singh, K., Aggarwal, P., Rajivan, P., & Gonzalez C. Anti-phishing training for end-users: Effects of frequency, incentives and feedback.
- Slooman, S., Goldstone, R., & Gonzalez, C. A social interpolation model of group problem-solving.

Edited Volumes

1. Schmid, U., Ragni, M., **Gonzalez, C.**, Funke, J. (Editors) (2011). Special Issue on Complex Cognition. *Cognitive Systems Research*. Volume 12, issues 3-4, September/December 2011.
2. Lebiere, C., **Gonzalez, C.**, Warwick, W. (2010). Cognitive Architectures, Model Comparison, and Artificial General Intelligence. *Journal of Artificial General Intelligence*. ISSN: 1946-0163. Volume 2, Number 2, January 2010.
3. Garrido, L., Cervantes-Perez, F., **Gonzalez, C.**, & Mora, M. (Editors) (2010). Engineering and Management of IDTs for Knowledge Management Systems. *Journal of Intelligent Decision Technologies*. ISSN 1872-4981 (Print) 1875-8843 (Online). Volume 4, Number 1, January 2010, pp. 1-100.

- de Souza, C., Sanchez, A., Barbosa, S., & **Gonzalez, C.** (Editors) (2003). *Proceedings of the Latin American Conference on Human-Computer Interaction* (ACM International Conference Proceedings Series, Vol. 46). New York: ACM Press.

Book Reviews

- Gonzalez, C. (2017). [Review of Dynamic Systems for Everyone: Understanding How Our World Works]. *System Dynamics Review*, 1-2.
- Gonzalez, C. (2000). [Review of Human performance and ergonomics]. *International Journal of Cognitive Ergonomics*, 4(3), 271–272.

PAPERS IN PEER-REVIEWED CONFERENCE PROCEEDINGS

2021

- Aggarwal, P., Du, Y., Singh, K., **Gonzalez, C.** (2021). Decoys in Cybersecurity: An Exploratory Study to Test the Effectiveness of 2-sided Deception. *International Joint Conference on Artificial Intelligence (IJCAI 2021)*. First International Workshop on Adaptive Cyber Defense. August 21-26, 2021.
- Cranford, E.A., Lebiere, C., Aggarwal, P., Singh, K., **Gonzalez, C.** (2021). Modeling Phishing Susceptibility as Decisions from Experience. *19th International Conference on Cognitive Modeling (ICCM 2021)*. July 1- July 12, 2021.
- McDonald, C., Bugbee, E. H., McCormick, E., Fiechter, J., Blaha, L., Lebiere, C. **Gonzalez, C.** (2021). Diverse Experience Leads to Improved Adaptation: An Experiment with a Cognitive Model of Learning. *19th International Conference on Cognitive Modeling (ICCM 2021)*. July 1- July 12, 2021.
- Bugbee, E., McDonald, C., McCormick, E., Fiechter, J., Lebiere, C. Blaha, L. **Gonzalez, C.** (2021). Cognitive Models of Sequential Choice in the Optimal Stopping Task. *54 Annual Meeting of the Society for Mathematical Psychology (MathPsych 2021)*. July 21-July 12, 2021.
- Eadeh, F. R., Zhao, M., Nguyen, T. N., Gupta, P., **Gonzalez, C.**, Admoni, H., Woolley, A. W. (2021). Anger: Helpful or Harmful for Team Performance?. In *ACM Collective Intelligence Conference 2021*.
- McDonald C., Nguyen, N. & **Gonzalez, C.** (2021). Multi-Agent Specialization and Coordination without Communication in a Gridworld Task. In *ACM Collective Intelligence Conference 2021*.
- Nguyen, T. N., Phan D. N., & **Gonzalez, C.** (2021). A Cognitive Hysteretic-IBL Model for Coordinated Multi-Agent Transportation Problems. In *ACM Collective Intelligence Conference 2021*.
- Sing, K., Aggarwal, P., & **Gonzalez, C.** (2021). A Social Dilemma for Cybersecurity: Sharing information among defenders. In *ACM Collective Intelligence Conference 2021*.

2020

- Thakoor, O. Jabbari, S. Aggarwal, P., **Gonzalez, C.** Tambe, M., Vayanos, P. (2020). Exploiting Bounded Rationality in Risk based Cyber Camouflage Games. In *International Conference on Decision and Game Theory for Security (GameSec-2020)*. – **Conference best paper award**.
- Aggarwal, P., Thakoor, O., Mate, A., Tambe, M., Cranford, E. A., Lebiere, C. & **Gonzalez, C.** (2020). An Exploratory Study of a Masking Strategy of Cyberdeception Using CyberVAN. *64th International Annual Meeting of the Human Factors and Ergonomics Society (HFES 2020)*. October 5-9, 2020. Chicago, IL.
- Cranford, E. A., **Gonzalez, C.**, Aggarwal, P. Tambe, M. & Lebiere, C. (2020). What Attackers Know and What They Have to Lose: Framing Effects on Cyber-Attacker Decision Making. *64th International Annual Meeting of the Human Factors and Ergonomics Society (HFES 2020)*. October 5-9, 2020. Chicago, IL.
- Singh, K., Aggarwal, P., Rajivan, P., & **Gonzalez, C.** (2020). What Makes Phishing Emails Hard for Humans to Detect? *64th International Annual Meeting of the Human Factors and Ergonomics Society (HFES 2020)*. October 5-9, 2020. Chicago, IL.
- Zhang, H., Moisan, F., & **Gonzalez, C.** (2020). Paper-Rock-Scissors: an exploration of the dynamics of players' strategies. *64th International Annual Meeting of the Human Factors and Ergonomics Society (HFES 2020)*. October 5-9, 2020. Chicago, IL.
- Nguyen, N. T., & **Gonzalez, C.** (2020). Cognitive Machine Theory of Mind. *42nd Annual Meeting of the Cognitive Science Society (CogSci 2020)*. July 29-August 1, Virtual meeting. pp.2560-2566.
- McCormick, E., Blaha, L., & **Gonzalez, C.** (2020). Exploring Dynamic Decision Making Strategies with Recurrence Quantification Analysis. *42nd Annual Meeting of the Cognitive Science Society (CogSci 2020)*. July 29-August 1, Virtual meeting. pp. 3041-3047.
- Nguyen, N. T., & **Gonzalez, C.** (2020). Effects of Decision Complexity in Goal-Seeking Gridworlds: A Comparison of Instance-Based Learning and Reinforcement Learning Agents. *18th Annual Meeting of the International Conference on Cognitive Modelling (ICCM 2020)*. July 20-July 31, Virtual meeting. pp. 174-179.
- McCormick, E., Blaha, L., & **Gonzalez, C.** (2020). Analyzing variability in instance-based learning model predictions using recurrence quantification analysis. *53rd Annual Meeting of the Society for Mathematical Psychology (MathPsych 2020)*. July 20-July 31, Virtual meeting.
- Gonzalez, C.**, Aggarwal, P., Cranford, E., Lebiere, C. (2020). Design of Dynamic and Personalized Deception: A Research Framework and New Insights. *Proceedings of the 53rd Hawaii International Conference on System Sciences HICSS 2020*. January 7-10, 2020. pp. 1825-1834.
- Cranford, E. **Gonzalez, C.**, Aggarwal, P., Cooney, S., Tambe, M., Lebiere, C. (2020). Adaptive Cyber Deception: Cognitively Informed Signaling for Cyber Defense. *Proceedings of the 53rd Hawaii International Conference on System Sciences HICSS 2020*. January 7-10, 2020. pp. 1886-1894. **Conference Best Paper Award**.

2019

20. Sing, K., Aggarwal, P., Rajivan, P., & **Gonzalez, C.** (2019). Training to Detect Phishing Emails: Effects of the Frequency of Experienced Emails. *Human Factors and Ergonomics Society's 2019 International Annual Meeting (HFES 2019)*. October 28-November 1, Seattle, WA.
 21. Cooney, S., Wang, K. Bondi, E., Nguyen, T., Vayanos, P., Winetrobe, H., Cranford, E. A., **Gonzalez, C.**, Lebiere, C., Tambe, M. (2019). Signaling Just Enough: Learning to Find the Goldilocks Zone to Improve Adversary Compliance in Security Games. *28th International Joint Conference on Artificial Intelligence (IJCAI-19)* – Workshop 10: Artificial Intelligence in Business Security (AIBS). August 10, 2019. August 10-16, 2019, Macao, China.
 22. Cooney, S., Wang, K. Bondi, E., Nguyen, T., Vayanos, P., Winetrobe, H., Cranford, E. A., **Gonzalez, C.**, Lebiere, C., Tambe, M. (2019). Learning to Signal in the Goldilocks Zone: Improving Adversary Compliance in Security Games. *The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD 2019)*. September 16-20, 2019, Würzburg, Germany.
 23. Cranford, E. A., & **Gonzalez, C.**, Aggarwal, P., Cooney, S., Tambe, M. & Lebiere, C. (2019). Towards Personalized Deceptive Signaling for Cyber Defense Using Cognitive Models. *41th Annual Meeting of the Cognitive Science Society (CogSci 2019)*. July 24-27, 2019, Montreal, Canada.
 24. Cranford, E. A., **Gonzalez, C.**, Aggarwal, P., Cooney, S., Tambe, M., Lebiere, C. (2019). Towards personalized deceptive signaling for cyber defense using cognitive models. In *Proceedings of the 17th Annual Meeting of the International Conference on Cognitive Modelling*. Montreal, CA.
 25. Cranford, E. A., Lebiere, C., Rajivan, P., Aggarwal, P., **Gonzalez, C.** (2019). Modeling cognitive dynamics in end-user response to phishing emails. In *Proceedings of the 17th Annual Meeting of the International Conference on Cognitive Modelling* (in press). Montreal, CA.
 26. Gutierrez, M., Cerny, J., Bosansky, B., Kiekintveld, C., Ben-Ahser, N., & **Gonzalez, C.** (2019). Evaluating Models of Human Behavior in an Adversarial Multi-Armed Bandit Problem. *41th Annual Meeting of the Cognitive Science Society (CogSci 2019)*. July 24-27, 2019, Montreal, Canada.
 27. Lyn Paul, C., Blaha, L. M., Fallon, C. K., **Gonzalez, C.**, & Gutzwiller, R. S. (2019). Opportunities and challenges for human-machine teaming in cybersecurity operations. In *Proceedings of the Human Factors and Ergonomics Society annual meeting*, Vol. 63, pp. 442–446
 28. Mahmoodi, K. & **Gonzalez, C.** (2019). Emergence of Collective Cooperation from Selfish-Imitation and Selfish-Attachment. *41th Annual Meeting of the Cognitive Science Society (CogSci 2019)*. July 24-27, 2019, Montreal, Canada.
 29. Sloman, M., Goldstone, R. & **Gonzalez, C.** (2019). Complex exploration dynamics from simple heuristics in a collective learning environment. *41th Annual Meeting of the Cognitive Science Society (CogSci 2019)*. July 24-27, 2019, Montreal, Canada.
 30. Aggarwal, P., Dutt, V., **Gonzalez, C.** (2019). The Role of Deception in Attack Decisions Using Cyber-Security Scenarios. *Women in CyberSecurity (WICYS 2019)*. March 28-30, 2019. Pittsburgh, PA.
 31. Aggarwal, P., Gautam, A., Agarwal, V., **Gonzalez, C.**, Dutt, V. (2019). *HackIT: A Human-in-the-loop Simulations Tool for Realistic Cyber Deception Experiments*. Track "Human Factors in Cybersecurity". *10th International Conference on Applied Human Factors and Ergonomics*. July 24-28, 2019. *AHFE 2019*. Washington, DC.
 32. Sloman, S., Goldstone, R., & **Gonzalez, C.** (2019). Individual and Group-Level Exploration in a Collective Search Task. *ACM Conference on Collective Intelligence*. June 13-14, 2019, Carnegie Mellon University. Pittsburgh, PA, USA.
 33. Mahmoodi, K. & **Gonzalez, C.** (2019). Selfishness Drives Collective Cooperation and Network Formation. *ACM Conference on Collective Intelligence*. June 13-14, 2019, Carnegie Mellon University. Pittsburgh, PA, USA.
 34. Cooney, S., Vayanos P., Nguyen T. H., **Gonzalez, C.**, Lebiere, C., Cranford E. A., Tambe, M. (2019). Warning Time: Optimizing Strategies Signaling for Security Against Boundedly Rational Adversaries. *Proceedings of the 18th International Conference on Autonomous Agents and Multi Agents Systems. AAMAS, 2019*. May 13-17, 2019, Montreal, CA. (page 1892).
- 2018**
35. Gutierrez, M., Kiekintveld, C., Aharonov, E., & **Gonzalez, C.** (2018). Human Learning in the Multi-Armed Bandit with Independent Support. *First International Workshop on AI and Computational Psychology: Theories, Algorithms and Applications*. July 14-15, 2018, Stockholm, Sweden.
 36. Harding, S M., Rajivan, P., Bertenthal, B. I., & **Gonzalez, C.** (2018). Human Decisions on Targeted and Non-Targeted Adversarial Samples. *40th Annual Meeting of the Cognitive Science Society (CogSci 2018)*. July 25-28, 2018, Madison, WI.
 37. De La Maza, C., Davis, A., **Gonzalez, C.** & Azevedo, I. (2018). A graph-based model to discover preference structure from choice data. *40th Annual Meeting of the Cognitive Science Society (CogSci 2018)*. July 25-28, 2018, Madison, WI.
 38. Cranford, E A., Lebiere, C., **Gonzalez, C.**, Cooney, S., Vayanos, P., & Tambe, M. (2018). Learning about Cyber Deception through Simulations: Predictions of Human Decision Making with Deceptive Signals in Stackelberg Security Games. *40th Annual Meeting of the Cognitive Science Society (CogSci 2018)*. July 25-28, 2018, Madison, WI.
- 2017**
39. Ben-Asher, N., Aharonov, E., & **Gonzalez, C.** (2017). Occasional Downpour or Constant Drip? – The Impact of Adverse Events Distribution on Learning and Risk Taking”. *SPUDM26 conference*, Technion, August 20-24, 2017. Haifa, Israel.
 40. **Gonzalez, C.** & Chrabaszcz J. (2017). Some things that glitter are gold: A Shiny app for an Instance-Based Learning Model. *50th meeting of the Society of Mathematical Psychology*. July 22-25, Coventry, UK.
 41. Chrabaszcz J., Konstantinidis, M., & **Gonzalez, C.** (2017). A Bayesian Implementation of the Instance-Based Learning Model of Choice. *50th meeting of the Society of Mathematical Psychology*. July 22-25, Coventry, UK.
 42. Aggarwal, P., **Gonzalez, C.**, & Dutt, V. (2017). Modeling the Effects of Amount and Timing of Deception in Simulated Network Scenarios. In *International Conference on Cyber Situational Awareness, Data Analytics And Assessment (CyberSA 2017)*. June 19-20, 2017, London, UK. (pp. tbd).

43. Buchler, N., Rajivan, P., Marusich, L., Lightner, L., & **Gonzalez, C.** (2017). Wearable Social-Sensors and Structure Observational Assessment of Teaming and Leadership in a Cyber Security Defense Competition. Track "Human Factors in Cybersecurity". 8TH International Conference on Applied Human Factors and Ergonomics. July 17-21, 2017. AHFE 2017. Los Angeles, CA, USA.
- 2016**
44. Grabe, J.v. & **Gonzalez, C.** (2016). Human Decision Making in Energy-Relevant Interaction with Buildings. *Central European Symposium on Building Physics (CESBP 2016)*. Dresden, Germany, September 14-16, 2016. pp. 345-352.
45. Aggarwal, P., **Gonzalez, C.**, & Dutt, V. (2016). Cyber-security: Role of Deception in Cyber-Attack Detection. In D. Nicholson, *Advances in Human Factors in Cybersecurity* (pp. 85-96). Springer International Publishing. *International Annual Meeting of the Human Factors and Ergonomics Society (HFES 2016)*, Washington, DC, September 19-23, 2016.
46. Dutt, V., Moisan, F., & **Gonzalez, C.** (2016). Role of Intrusion-Detection Systems in Cyber-Attack Detection. In D. Nicholson, *Advances in Human Factors in Cybersecurity* (pp. 97-110). Springer International Publishing. Presented at the *International Annual Meeting of the Human Factors and Ergonomics Society (HFES 2016)*, Washington, DC, September 19-23, 2016.
47. Rajivan, P., Konstantinidis, E., Ben-Asher, N., & **Gonzalez, C.** (2016). Categorization of Events in Security Scenarios: The Role of Context and Heuristics. In *Proceedings of the International Annual Meeting of the Human Factors and Ergonomics Society (HFES 2016)*. Washington, DC, September 19-23, 2016. Human Factors and Ergonomics Society. Sage Publications pp. tbd.
48. Yu, M. & **Gonzalez, C.** (2016). Learning the dynamics of Prisoner's Dilemma: Lessons from modeling and simulation. *14th International Conference on Cognitive Modeling (ICCM 2016)*. August 4-6, 2016, Pennsylvania State University, University Park, PA.
49. Lebiere, C., Morrison, D., Abdelzaher, T., Hu, Shaohan, **Gonzalez, C.** Buchler, N., Veksler V. D. (2016). Cognitive Models of Prediction as Decision Aids. *14th International Conference on Cognitive Modeling (ICCM 2016)*. August 4-6, 2016, Pennsylvania State University, University Park, PA.
50. Abbasi, Y. D., Ben-Asher, N., **Gonzalez, C.**, Kar, D., Morrison, D., Sintov, N., Tambe, M. (2016). Adversaries Wising Up: Heterogeneity and Dynamics of Behavior. *14th International Conference on Cognitive Modeling (ICCM 2016)*. August 4-6, 2016, Pennsylvania State University, University Park, PA.
51. Abbasi, Y. D., Ben-Asher, N., **Gonzalez, C.**, Kar, D., Morrison, D., Sintov, N., Tambe, M. (2016). Know your Adversary: Insights for a Better Adversarial Behavioral Model. *38th Annual Meeting of the Cognitive Science Society (CogSci 2016)*. August 10-13, 2016, Philadelphia, PA.
52. Abbasi, Y. D., Ben-Asher, N., **Gonzalez, C.**, Kar, D., Morrison, D., Sintov, N., Tambe, M. (2016). Categorizing Adversary Rationality Based on Attack Patterns in an Opportunistic Security Game. Security and Multi-agent Systems (SecMAS) Workshop. *International Conference on Autonomous Agents and MultiAgent Systems (AAMAS 2016)*.
53. Cheyette, S., Konstantinidis, E., Harman, J.L., **Gonzalez, C.**, (2016). Choice adaptation to increasing and decreasing event probabilities. *38th Annual Meeting of the Cognitive Science Society (CogSci 2016)*. August 10-13, 2016, Philadelphia, PA.
54. Aggarwal, P., **Gonzalez, C.**, & Dutt, V. (2016). Looking from the Hacker's Perspective: Role of Deceptive Strategies in Cyber Security. In *International Conference on Cyber Situational Awareness, Data Analytics And Assessment (CyberSA 2016)*. June 13-14, 2016, London, UK. (pp. 1-6).
- 2015**
55. Ben-Asher, N., Oltramari, A., Erbacher, R., & **Gonzalez, C.** (2015). Ontology-based Adaptive Systems of Cyber Defense. *10th International Conference on Semantic Technology for Intelligence, Defense, and Security (STIDS 2015)*, November 18-20. Fairfax, VA. **Best paper award.**
56. Ben-Asher, N. & **Gonzalez, C.** (2015). Training for the unknown: The role of feedback and similarity in detecting zero-day attacks. *6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015)*. July 26-30. Las Vegas, NV.
57. Harman, J. & **Gonzalez, C.** (2015). Decision Makers in Changing Environments Anticipate Negative Changes and Resist Positive Changes. *Second Multidisciplinary Conference on Reinforcement Learning and Decision Making*. June 7-10, 2015. Edmonton, Alberta, Canada.
58. Konstantinidis, E., Ashby, N. J. S., & **Gonzalez, C.** (2015). Exploring complexity in decisions from experience: Same minds, same strategy. In D. C. Noelle, R. Dale, A. S. Warlaumont, J. Yoshimi, T. Matlock, C. D. Jennings, & P. P. Maglio (Eds.), *Proceedings of the 37th Annual Conference of the Cognitive Science Society* (pp. 1177-1182). Austin, TX: Cognitive Science Society.
- 2014**
59. **Gonzalez, C.** & Ben-Asher N. (2014). Learning to cooperate in the prisoner's dilemma: Robustness of predictions of an instance-based Learning model. *Proceedings of the 36th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society. Quebec City, Canada. July 23-July 26, 2014. pp. 2285-2292.
60. Kumar, S., Cervesato, I., Maruthullathil, A., Wong H., & **Gonzalez, C.** (2014). Role of problem complexity and domain familiarity in relational reasoning – A psychological perspective. *Qatar Foundation Annual Research Conference (ARC'14)*. November 18-19, 2004. Doha, Qatar.
61. Harman, J., O'Donovan, J., Abdelzaher, T. & **Gonzalez, C.** (2014). Dynamics of Human Trust in Recommender Systems. *The ACM Conference Series on Recommender Systems. RECSYS 2014*. October 6th-10th. Foster City, Silicon Valley, USA.
62. Ben-Asher, N., Rajivan, P., Cooke, N., & **Gonzalez, C.** (2014). Studying the Dynamics of Cyber-War through Instance-Based Learning and Multi-Agent Modeling. *The 4th annual Midwest Cognitive Science Conference*. May 31, 2014. Wright State University. OH.

63. Lejarraga, T., Lejarraga, J., **Gonzalez, C.** (2014). Decisions from Experience: How Groups and Individuals Adapt to Change. *The 74th Annual Meeting of the Academy of Management*. August 1-5, 2014. Philadelphia, PA. pp. TBD.
64. Onal, E., Schaffer, J., O'Donovan, J., Marusich, L., Yu, M. S., **Gonzalez, C.**, Höllerer, T. (2014). Decision-Making in Abstract Trust Games: A User Interface Perspective. In *Proceedings of the 4rd. IEEE Conference on Cognitive Methods in Situation Awareness and Decision Support (CogSIMA 2014)*. San Antonio, TX. March 3-5, 2014. pp. TBD. **Best Paper Award.**
65. Onal, E., Schaffer, J., Schaffer, J., O'Donovan, J., Marusich, L., Yu, M. S., **Gonzalez, C.**, Höllerer, T. (2014). Trust and Consequences: A Visual Perspective. In *Proceedings of the 16th International Conference on Human Computer Interaction (HCI 2014)*. Crete, Greece. June 22-27, 2014. pp. TBD.

2013

66. **Gonzalez, C.** & Mehlhorn, K. (2013). Life is like a box of chocolates: Experience, Emotionality of the Context, and Framing Influence What You're Gonna Choose. In *Proceedings of: Subjective Probability, Utility, and Decision Making Conference. SPUDM24*. Barcelona, Spain. August 18-22, 2013.
67. Ben-Asher, N.; Lebiere, C.; Oltamari, A.; & **Gonzalez, C.** (2013). Balancing Fairness and Efficiency in Repeated Societal Interactions. In *35th annual meeting of the Cognitive Science Society (CogSci 2013)*. Berlin, Germany. July 31- August 3, 2013. pp. 175-180.
68. Ben-Asher, N., Dutt, V., & **Gonzalez, C.** (2013). Accounting for the integration of descriptive and experiential information in a repeated prisoner's dilemma using an instance-based learning model. In *Proceedings of the 22th Behavior Representation in Modeling & Simulation (BRIMS) Conference*. Collocated with the *12th International conference on Cognitive Modeling (ICCM 2013)*, Carleton University, Ottawa, Canada. July 11 - 14, 2013.
69. Fischer H. & **Gonzalez, C.** (2013). Seeing the forest for the trees predicts accumulation decisions. In *35th annual meeting of the Cognitive Science Society (CogSci 2013)*. Berlin, Germany. July 31- August 3, 2013.
70. Fischer H. & **Gonzalez, C.** (2013). Global-Local processing predicts decision-making in stock-flow systems. In *25th Association for Psychological Science (APS)*. Washington, D.C. May 23-26, 2013. pp. 2303-2308.
71. Lejarraga, T., Lejarraga, J., & **Gonzalez, C.** (2013). Group and individual adaptation to changing environments. In *proceedings of: Subjective Probability, Utility, and Decision Making Conference. SPUDM24*. Barcelona, Spain. August 18-22, 2013.
72. Martin, J., Lejarraga, T., & **Gonzalez, C.** (2013). The Effects of Memory and Motivation on Reference Price Formation. In *proceedings of: Subjective Probability, Utility, and Decision Making Conference. SPUDM24*. Barcelona, Spain. August 18-22, 2013.
73. Newell, B; Kary, A.; Moore C. & **Gonzalez, C.** (2013). Managing our debt: Changing Context Reduces Misunderstanding of Global Warming. In *35th annual meeting of the Cognitive Science Society (CogSci 2013)*. Berlin, Germany. July 31- August 3, 2013. pp. 3139-3144.
74. O'Donovan, J., Jones, R., Marusich, L., Teng, Y., **Gonzalez, C.**, & Höllerer, T. (2013). A Model-based Evaluation of Trust and Situation Awareness in the Diner's Dilemma Game. In *Proceedings of the 22th Behavior Representation in Modeling & Simulation (BRIMS) Conference*. San Antonio, TX. March 11-14, 2013.
75. Oltamari, A., Lebiere, C., Ben-Asher, N., Juvina, I. & **Gonzalez, C.** (2013). Modeling Strategic Dynamics Under Alternative Information Conditions. In *12th International conference on Cognitive Modeling (ICCM 2013)*, Carleton University, Ottawa, Canada. July 11 - 14, 2013.
76. Teng, Y., Jones, R., Marusich, L., O'Donovan, J., **Gonzalez, C.**, Höllerer, T. (2013). Trust and Situation Awareness in a 3-Player Diner's Dilemma Game. In *Proceedings of the 3rd. IEEE Conference on Cognitive Methods in Situation Awareness and Decision Support (CogSIMA 2013)*. San Diego, CA, February 26-28, 2013. pp. 9-15.

2012

77. **Gonzalez, C.** (2012). From Individual Decisions From Experience to Behavioral Game Theory: Lessons for Cybersecurity. Invited panelist to Perspectives from Cognitive Engineering on Cyber Security. Cooke N. et al., 2012. In *Proceedings of the Human Factors and Ergonomics Society 56th Annual Meeting*. (HFES 2012). Boston, MA, October 22-26, 2012. Human Factors and Ergonomics Society. pp. 268-271.
78. **Gonzalez, C.**, Dutt, V., Martin, J., & Ben-Asher N. (2012). Decisions from Experience in Conflict Situations: Cognitive Model of the Effects of Interdependence Information. *Behavioral Decision Research in Management Conference*. BDRM 2012. June 27-29, 2012. Leeds School of Business, Boulder, CO.
79. Juvina, I., Lebiere, C., **Gonzalez, C.**, & Saleem M. (2012). Generalization of Learning in Games of Strategic Interaction. *34th Annual Meeting of the Cognitive Science Society*. CogSci 2012. August 1-4, Sapporo, Japan. pp. 521-526.
80. Juvina, I., Lebiere, C., **Gonzalez, C.**, & Saleem M. (2012). Intergroup Prisoner's Dilemma with Intragroup Power Dynamics and Individual Power Drive. in Yang, S.J., Greenberg, A.M., and Endsley, M. (Eds.). *Social Computing, Behavioral-Cultural Modeling and Prediction. Lecture Notes in Computer Science*. SBP 2012. 7227, 290-297, DOI: 10.1007/978-3-642-29047-3_35.
81. Martin, J., Lejarraga, T., & Gonzalez, C. (2012). The Ghosts of Information Past and Future: Effects of Memory and Motivation on Reference Prices, in *NA - Advances in Consumer Research* Volume 40, eds. Zeynep Gürhan-Canli, Celestines, and Rui (Juliet) Zhu, Duluth, MN : Association for Consumer Research, Pages: 817-818.

2011

82. **Gonzalez, C.**, Dutt, V. & Lejarraga, T. (2011). A loser can be a winner: Comparison of two Instance-Based Learning Models in a Market Entry Competition. *23rd. Subjective Probability, Utility, and Decision Making Conference (SPUDM 2011)*. Kingston University London, August 21-25, 2011.

83. **Gonzalez, C., Dutt, V. & Martin, J.** (2011). Scaling up Instance-Based Learning Models of Individual Decision Making to Models of Behavior in Conflict Situations. In *Proceedings of the 2011 International Conference on Behavioral Decision Making*. The Interdisciplinary Center IDC Herzliya, Israel, May 30- June 1, 2011. pp. 4.
84. Arlo-Costa, H., Dutt, V., **Gonzalez, C.** & Helzner J. (2011). The Description-Experience Gap in the case of Uncertainty. In *Proceedings of the Seventh International Symposium on Imprecise Probability: Theories and Applications*. ISIPTA'11. Innsbruck, Austria. July 25-28, 2011.
85. Dutt, V., Yu, M., & **Gonzalez, C.** (2011). Deciding when to escape a mine emergency: Modeling accumulation of evidence about emergencies through Instance-based Learning. In *Proceedings of the Human Factors and Ergonomics Society 55th Annual Meeting*. (HFES 2011). Las Vegas, NV, September 19-23, 2011. Human Factors and Ergonomics Society. pp. 841-845.
86. Dutt, V., & **Gonzalez, C.** (2011). Making Instance-Based Learning Theory Usable, Transparent, and Understandable: Instance-based learning tool. In *Proceedings of the Human Factors and Ergonomics Society 55th Annual Meeting*. (HFES 2011). Las Vegas, NV, September 19-23, 2011. Human Factors and Ergonomics Society. pp. 1813-1817.
87. Dutt, V., Young-Suk, A., & **Gonzalez, C.** (2011). Cyber Situation Awareness: Modeling the Security Analyst in a cyber-attack scenario through Instance-based Learning. In *Proceedings of the 20th Behavior Representation in Modeling & Simulation (BRIMS) Conference*. March 21-24, 2011. Sundance Resort, Utah, USA.
88. Dutt, V., Ahn, Y., **Gonzalez, C.** (2011). Cyber Situation Awareness: Modeling the Security Analyst in a Cyber-Attack Scenario Through Instance-Based Learning. *25th Annual WG 11.3 Conference on Data and Applications Security and Privacy (DBSec'11)*. Richmond, Virginia, USA, July 11-13, 2011.
89. Dutt, V., Cassenti, D. N., & **Gonzalez, C.** (2011). Modeling a Robotics Operator Manager in a Tactical Battlefield. In *Proceedings of the 2011 IEEE International Multi-Disciplinary conference on Cognitive Methods in Situation Awareness and Decision Support (CogSIMA)*. Miami Beach FL, February 21-24, pp.82-87. ISBN: 978-1-61284-785-6.
90. Juvina, I., Lebiere, C., Martin, J. M. & **Gonzalez, C.** (2011). Cognitive Aspects of Power in a two-level Game. In J. Salerno, S. J. Yang, D. Nau, & S. Chai (Eds.): SBP 2011, LNCS 6589, Springer, Heidelberg. *Proceedings of the 2011 International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction*. SBP 2011. University of Maryland, College Park, MD, March 29-31, 2011, pp. 34-41.
91. Lejarraga, T., Hertwig, R., & **Gonzalez, C.** (2011). An Ecological Analysis of Search. *23rd. Subjective Probability, Utility, and Decision Making Conference (SPUDM 2011)*. Kingston University London, August 21-25, 2011.
92. Martin, J. M., Juvina, I., Lebiere, & **Gonzalez, C.** (2011). The Effects of Individual and Context on Aggression in Repeated Social Interaction. In *Proceedings of the HCI International 2011 Conference*. HCII 2011. Orlando, FA, July 9-14, 2011.
- 2010**
93. **Gonzalez, C.** (2010). Instance-Based Learning Models of Situation Awareness and Decision Making. In *Proceedings of the Human Factors and Ergonomics Society 54rd Annual Meeting*. (HFES 2010). San Francisco, CA, September 27- October 1, 2010. Human Factors and Ergonomics Society.
94. **Gonzalez, C.** & Dutt, V. (2010). Instance-Based Learning Models of Training. In *Proceedings of the Human Factors and Ergonomics Society 54rd Annual Meeting*. (HFES 2010). San Francisco, CA, September 27- October 1, 2010. Human Factors and Ergonomics Society. pp. 2319-2323.
95. **Gonzalez, C.,** Lebiere, C., Martin, J., Juvina I. (2010). Dynamic Decision Making Games and Conflict Resolution. In *Proceedings of the 3rd International Conference on Applied Human Factors and Ergonomics (AHFE2010)*. Miami, FL, July 17-20, 2010.
96. **Gonzalez, C.,** Martinez-Moyano. (2010). Stock-and-Flow Failure: Initial Stock and Priming. In *Proceedings of the 28th International Conference of the System Dynamics Society*. Seoul, Korea, July 25-29, 2010.
97. Juvina, I., Martin, J., Lebiere, C. & **Gonzalez, C.** (2010). A Game Paradigm to Study the Dynamics of Power. In *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*. Portland, OR, August 11-14, 2010.
98. Martin, J. & **Gonzalez, C.** (2010). Cultural Determinants of Strategic Bias: A study of Conflict Resolution in an Interactive Computer Game. In *Proceedings of the 3rd ACM International Conference on Intercultural Collaboration (ICIC)*. Copenhagen, Denmark, August 19-20, 2010. pp. 151-160.
99. Martin, J. & **Gonzalez, C.** (2010). The Cultural Determinants of Strategic Bias in Conflict Resolution. In *Proceedings of the 23rd Annual Meeting of the International Association for Conflict Management*. Boston, MA, June 24-27, 2010. Available at SSRN: <http://ssrn.com/abstract=1612834>.
100. Proctor, C. W., Yamaguchi, M., **Gonzalez, C.,** Dutt, V. (2010). Spatial Compatibility Effects in a Complex Task Environment. Paper presented at the *American Psychological Association (APA) 118th Annual Convention*. San Diego, CA.
101. Saner, L. D., Bolstad, C. A., **Gonzalez, C.** & Cuevas, H. M. (2010). Predicting Shared Situation Awareness in Teams: A Case of Differential SA Requirements. In *Proceedings of the Human Factors and Ergonomics Society 54rd Annual Meeting*. (HFES 2010). San Francisco, CA, September 27- October 1, 2010. Human Factors and Ergonomics Society. pp. 314-318.
- 2009**
102. **Gonzalez, C.,** Dutt, V., Healy, A., Young, M. & Bourne, L. (2009). Comparison of Instance and Strategy Models in ACT-R. *Proceedings of the International conference on Cognitive Modeling*. Manchester, UK, July 24-26, 2009. Available on CD-ROM.
103. Brenan R., Madhavan, P., & **Gonzalez, C.,** (2009). The Impact of Performance Incentives during Training on Transfer of Learning. . In *Proceedings of the Human Factors and Ergonomics Society 53rd Annual Meeting*. San Antonio, TX, October 19-23, 2009. Human Factors and Ergonomics Society. pp. 1979-1983.
104. Dutt, V., & **Gonzalez, C.** (2009). Climate Risk Communication: A cure for people's mental models. In *Proceedings of the 2008 Annual Meeting of the Society for Risk Analysis* (pp. 82). Baltimore, MD, December 6-9, 2009.

105. Dutt, V., Yamaguchi, M., **Gonzalez, C.** & Proctor R.W. (2009). An Instance-Based Learning Model of Stimulus-Response Compatibility Effects in Mixed Location-Relevant and Location-Irrelevant Tasks. *Proceedings of the International conference on Cognitive Modeling*. Manchester, UK, July 24-26, 2009. Available on CD-ROM.
106. Dutt, V., & **Gonzalez, C.** (2009). Human perceptions of climate change. In *Proceedings of the Human Factors and Ergonomics Society 53rd Annual Meeting (2009)*. San Antonio, TX, October 19-23, 2009. Human Factors and Ergonomics Society. pp. 384-388.
107. Saner, L. D., & **Gonzalez, C.** (2009). Naturalistic decision framing in computer mediated scientific exploration. *9th bi-annual International Conference on Naturalistic Decision Making* (pp. 138-143). London, UK, June 23-26, 2009.
108. Lebiere, C., **Gonzalez, C.**, & Warwick W. (2009). A Comparative Approach to Understanding General Intelligence: Predicting Cognitive Performance in an Open-ended Dynamic Task. *The Second Conference on Artificial General Intelligence (AGI-09.org)*. Arlington, VA, March 6-9, 2009.

2008

109. Brunstein, A., & **Gonzalez, C.** (2008). Robust learning from diverse training [abstract]. In *Proceedings of the 49th Annual Meeting of the Psychonomics Society* (pp. 18). Chicago, IL, November 13-16, 2008.
110. Dutt, V., & **Gonzalez, C.** (2008). Human Risk Perceptions of Climate Change [abstract]. In *Proceedings of the 2008 Annual Meeting of the Society for Risk Analysis* (pp. 63). Boston, MA, December 7-10, 2008.
111. Dutt, V., & **Gonzalez, C.** (2008). Instance and strategy ACT-R models of choice in a dynamic control task: A model comparison story. In *Proceedings of the Modeling, Simulation, and Gaming Conference* (pp. 19). Suffolk, VA.
112. Dutt, V., & **Gonzalez, C.** (2008). Human perceptions of climate change. In B. Dangerfield (Ed.), *Proceedings of the 26th International Conference of the System Dynamics Society* (pp. 47). Athens, Greece: System Dynamics Society.
113. Lacson, F., **Gonzalez, C.**, & Madhavan, P. (2008). Framing and context effects in visual search training. In *Proceedings of the Human Factors and Ergonomics Society 52nd Annual Meeting (2008)* (pp.). NYC, NY: Human Factors and Ergonomics Society.
114. Saner, L. D., Bolstad, C. A., **Gonzalez, C.**, & Cuevas, H. M. (2008). Measuring and predicting shared situation awareness in teams. *Proceedings of the 3rd West Point Network Science Workshop*, October 15-17, West Point, NY
115. Young, M. D., Healy, A. F., **Gonzalez, C.**, Dutt, V., & Bourne, L. E., Jr. (2008). Effects of training with added relevant responses on RADAR detection. Paper presented at the *Meeting of the Experimental Psychology Society and the Psychonomic Society*. Chicago, IL, November 13-16, 2008.

2007

116. **Gonzalez, C.**, & Dutt, V. (2007). Learning to control a dynamic task: A system dynamics cognitive model of the slope effect. In Lewis, Polk, & Laird (Eds.), *8th International Conference on Cognitive Modeling* (pp. 61-66). Ann Arbor, MI.
117. Best, B. J., **Gonzalez, C.**, Young, M. D., Healy, A. F., & Bourne, L. E., Jr. (2007). Modeling automaticity and strategy selection in dynamic visual detection. In *Proceedings of the Sixteenth Conference on Behavior Representation in Modeling and Simulation (BRIMS)* (pp. 3-11). Orlando, FL: Simulation Interoperability Standards Organization.
118. Brunstein, A., & **Gonzalez, C.** (2007). Preparing for the unprepared: Instance-based learning in complex transfer [abstract]. In *Proceedings of 37th Annual Meeting of the Society of Computers in Psychology* (pp. 20). Long Beach, CA, November 15, 2007.
119. Dutt, V., & **Gonzalez, C.** (2007). Slope of inflow impacts dynamic decision making. In *Proceedings of the 25th International Conference of the System Dynamics Society* (pp. 79). Boston, MA: System Dynamics Society.
120. Kiziltas, S., Akinci, B., & **Gonzalez, C.** (2007). Understanding differences in information needs of expert and novice estimators from construction project histories. Paper presented at the *2007 ASCE Construction Research Congress*, Grand Bahama Island, May 6-8, 2007.
121. Lebiere, C., **Gonzalez, C.** & Martin, M.K. (2007). Instance-based decision making model of repeated binary choice. In Lewis, Polk, & Laird (Eds.), *8th International Conference on Cognitive Modeling (ICCM)* (pp. 77-82). Ann Arbor, MI.
122. Madhavan, P., **Gonzalez, C.**, & Lacson, F. (2007). Differential base rate training influences detection of novel targets in a complex visual inspection task. In *Proceedings of the Human Factors and Ergonomics Society 51st Annual Meeting* (pp. 392-396). Baltimore, MD: Human Factors and Ergonomics Society.
123. Vrbin, C., & **Gonzalez, C.** (2007). Probability learning in a dynamic simulated medical diagnosis task. Paper presented at the *29th Annual Meeting of the Society for Medical Decision Making*, Pittsburgh, PA.
124. Young, M. D., Healy, A. F., **Gonzalez, C.**, & Bourne, L. E., Jr. (2007). The effects of training difficulty on RADAR detection. Paper presented at *Edinburg Meeting of the Experimental Psychology Society and the Psychonomic Society*, Edinburgh, Scotland, July 4-7, 2007.

2006

125. **Gonzalez, C.**, Martin, M. K., & Hansberger, J. (2006). Feedforward effects on predictions in a dynamic battle scenario. In *Proceedings of the Human Factors and Ergonomics Society 50th Annual Meeting* (pp. 265-269). Santa Monica, CA: Human Factors and Ergonomics Society.
126. **Gonzalez, C.**, Thomas, R. P., Lim, J., Vrbin, C., & Madhavan, P. (2006). MEDIC: A tool to study physicians' cognition and decision making in medical diagnosis. Poster session presented at the *annual meeting of the Society for Medical Decision Making*, Boston, MA.
127. **Gonzalez, C.**, Fu, W., Healy, A. F., Kole, J. A., & Bourne, L. E., Jr. (2006). ACT-R models of training data entry skills. In *Proceedings of the Fifteenth Conference on Behavior Representation in Modeling and Simulation (BRIMS)* (pp. 101-109). Orlando, FL: Simulation Interoperability Standards Organization.

128. **Gonzalez, C.**, Juarez, O., Endsley, M., & Jones, D. (2006). Cognitive models of situation awareness: Automatic evaluation of situation awareness in graphic interfaces. In *Proceedings of the Fifteenth Conference on Behavior Representation in Modeling and Simulation (BRIMS)* (pp. 45-54). Orlando, FL: Simulation Interoperability Standards Organization.
129. Cronin, M., **Gonzalez, C.**, & Sterman, J. (2006). Difficulties understanding system dynamics: A challenge to researchers, educators and citizens. In K. M. Weaver (Ed.), *2006 Academy of Management Annual Meeting (AOM)*. Briarcliff Manor, NY: Academy of Management. Available on CD-ROM.
130. Fu, W., **Gonzalez, C.**, Healy, A.F., Kole, J. A., & Bourne, L. E., Jr. (2006). Building predictive models of skill acquisition in a data entry task. In *Proceedings of the Human Factors and Ergonomics Society 50th Annual Meeting* (pp.1122-1126). Santa Monica, CA: Human Factors and Ergonomics Society.
131. Fu, W., & **Gonzalez, C.** (2006). Learning to control dynamic systems: Information utilization and future planning. In R. Sun (Ed.), *The 28th Annual Conference of the Cognitive Science Society (CogSci 2006)* (pp. 244-249). Mahwah, NJ: Lawrence Erlbaum Associates.
132. Madhavan, P., & **Gonzalez, C.** (2006). Effects of sensitivity, criterion shifts and subjective confidence on the development of automaticity in airline luggage screening. In *Proceedings of the Human Factors and Ergonomics Society 50th Annual Meeting* (pp. 334-338). Santa Monica, CA: Human Factors and Ergonomics Society.

2005

133. Bolstad, C., Cuevas, H., **Gonzalez, C.**, & Schneider, M. (2005). Modeling situation awareness. In K. Gluck (Ed.), *Proceedings of the Conference on Behavior Representation in Modeling and Simulation (BRIMS)*. SISO: Available as 05-BRIMS-047.pdf at <http://www.sisostds.org/index.php?tg=articles&idx=More&article=219&topics=72>
134. Cronin, M., & **Gonzalez, C.** (2005). The building blocks of systems dynamics: What is the problem really? In J. D. Sterman, M. P. Repenning, R. S. Langer, J. I. Rowe, & J. M. Yanni (Eds.), *Proceedings of the International Conference of the System Dynamics Society* (p. 61). Albany, NY: Systems Dynamics Society.
135. Quesada, J., Chater, N., & **Gonzalez, C.** (2005). An explanation of decoy effects without assuming numerical attributes. In B. G. Bara, L. Barsalou, & M. Bussiarelli (Eds.), *Proceedings of the Annual Conference of the Cognitive Science Society (CogSci 2005)* (p. 2542). Mahwah, NJ: Lawrence Erlbaum Associates.
136. Graham, J., Zheng, L., & **Gonzalez, C.** (2005). A cognitive approach to game usability and design: Mental model development in novice real time strategy gamers. Paper presented at the *2005 Digital Games Research Association (DiGRA) Conference*. Vancouver, British Columbia, Canada, June 16–20.

2004

137. **Gonzalez, C.**, Juarez, O., & Graham, J. (2004). Cognitive and computational models as tools to improve situation awareness. In *Proceedings of the Human Factors and Ergonomics Society 48th Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society. Available on CD-ROM.
138. Graham, J., Schneider, M., Bauer, A., Bessiere, K., & **Gonzalez, C.** (2004). Shared mental models in military command and control organizations: Effect of social network distance. In *Proceedings of the Human Factors and Ergonomics Society 48th Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society. Available on CD-ROM.
139. Juarez, O., & **Gonzalez, C.** (2004). Situation awareness of commanders: A cognitive model. In K. Gluck (Ed.), *Proceedings of the Conference on Behavior Representation in Modeling and Simulation (BRIMS)*. SISO: Available as 04-BRIMS-072.pdf at <http://www.sisostds.org/index.php?tg=articles&idx=More&article=219&topics=72>
140. Martin, M. K., **Gonzalez, C.**, & Lebiere, C. (2004). Learning to make decisions in dynamic environments: ACT-R plays the beer game. In M. Lovett, C. Schunn, C. Lebiere, & P. Munro (Eds.), *Proceedings of the Sixth International Conference on Cognitive Modeling: ICCM 2004: Integrating Models*. (pp. 178-183). Mahwah, NJ: Lawrence Erlbaum Associates Publishers.

2003

141. **Gonzalez, C.** (2003). Verbal protocols from novices and experts in dynamic decision making. In *Proceedings of the Human Factors and Ergonomics Society 47th Annual Meeting* (pp. 293-296). Santa Monica, CA: Human Factors and Ergonomics Society.
142. **Gonzalez, C.**, & Golenbock, J. (2003). Impact of numerical and graphical formats on dynamic decision making performance: An eye-tracking study. In A. Sánchez & C. de Souza (Eds.), *Proceedings of the First Latin American Conference of Human-Computer Interaction*. ACM; SIGCHI.
143. Graham, J., **Gonzalez, C.**, & Doyle, M. (2003). Using communication patterns in the design of an adaptive organizational structure for command and control. In *Proceedings of the Human Factors and Ergonomics Society 47th Annual Meeting* (pp. 410-413). Santa Monica, CA: Human Factors and Ergonomics Society.
144. Juarez, O. & **Gonzalez, C.** (2003). MASA: Meta architecture for situation awareness. In K. Gluck (Ed.), *Proceedings of the Conference on Behavior Representation in Modeling and Simulation (BRIMS)*. SISO: Available as 03-BRIMS-037.pdf at <http://www.isostds.org/index.php?tg=articles&idx=More&article=228&topics=71>.

2002

145. **Gonzalez, C.** (2002). The role of cognitive modeling in enhancing dynamic decisions. In W. D. Gray & C. D. Schunn (Eds.), *Proceedings of the 24th Annual Meeting of the Cognitive Science Society (CogSci 2002)* (p. 1005). Mahwah, NJ: Lawrence Erlbaum Associates.

1999

146. **Gonzalez, C.** & Lerch, F. J. (1999). Modeling time pressure and individual differences in a real-time dynamic decision making task. In S. H. Zankas & G. Doukidis (Eds.), *Proceedings of the 5th International Conference of the Decision Sciences Institute* (pp. 795–799). Atlanta, GA: The Decision Sciences Institute.

147. **Gonzalez, C.**, Sanchez, A., & Raquel, O. P. (1999). Encouraging CHI collaboration in Latin America. Paper presented at the *International Conference on Human Factors in Computing Systems*, Pittsburgh, PA, May 15–20.
148. Lerch, F. J., **Gonzalez, C.**, & Lebiere, C. (1999). Learning under high cognitive workload. In M. Hahn & S. C. Stones (Eds.), *Proceedings of the 21st Annual Meeting of the Cognitive Science Society (CogSci 1999)* (pp. 302–307). Mahwah, NJ: Lawrence Erlbaum Associates.
149. Medelez, E., Ayala, G., **Gonzalez, C.**, & Lerch, F. J. (1999). Awareness and cooperation tools for a simulation-based learning environment. In B. Collis & R. Oliver (Eds.), *Proceedings of the 11th World Conference on Educational Multimedia, Hypermedia and Telecommunications* (vol. 1, pp. 1128–1133). Charlottesville, VA: Association for the Advancement of Computing in Education.
150. Medelez, E., Ayala, G., **Gonzalez, C.**, & Lerch, F. J. (1999). Diseno de un ambiente de trabajo cooperativo en internet [The design of a cooperative environment in internet]. In R. Murphy (Ed.), *Proceedings of the 9th International Congress of Electronics, Communications and Computers* (pp. 68–72). UDLA-P/IEEE.
- 1998**
151. Lerch, F. J., Harter, D., & **Gonzalez, C.** (1998). Individual differences in real-time dynamic decision making. Paper presented at the *4th Conference on Naturalistic Decision Making*, Warrenton, VA, May 29–31.
152. Lerch, F. J., Harter, D., & **Gonzalez, C.** (1998). Time pressure in real-time dynamic decision making. In E. D. Hoadley & I. Benbasat (Eds.), *Proceedings of the Fourth Americas Conference on Information Systems* (pp. 252–254). Pittsburgh, PA: Association for Information Systems.
- 1996**
153. **Gonzalez, C.** (1996). Does animation in user interfaces improve decision making? In M. J. Tauber (Ed.), *Proceedings of the International Conference on Human Factors in Computing Systems* (pp. 27–34). New York, NY: The Association for Computing Machinery.
- 1995**
154. **Gonzalez, C.** & Kasper, G. (1995). Animation in user interface design for decision support systems: Development of a research framework. In D. W. Olson & K. R. Sliwa (Eds.), *Proceedings of the 3rd International Conference of the Decision Sciences Institute: Competing in the global marketplace; A decision science viewpoint* (pp. 58–60) Atlanta, GA: The Decision Sciences Institute.

TEACHING

Carnegie Mellon University Social and Decision Sciences Dietrich College of Humanities and Social Sciences	88-380 Dynamic Decisions Undergraduate level course	Spring, 2016, 2017 2018, 2019, 2020, 2021
Warwick Business School University of Warwick Coventry, United Kingdom	4 th Summer School on Decisions from Experience PhD level course	Summer, 2016
TELECOM Ecole de Management TEM Business School Paris, France	European Summer Program Human Factors Masters level course	Summer, 2016
Carnegie Mellon University H. John Heinz III College	90-777 A2: Intermediate Statistics Masters level course.	Fall, 2015
Carnegie Mellon University Human-Computer Interaction Institute School of Computer Science	08-775: Cognitive Perspectives in Human-Computer Interaction PhD level course	Spring, 2010
Wyzsza Szkola Biznesu- National Louis University Nowy Sacz, Poland	Dynamic Decision Making Research 2-week faculty seminar	Summer, 2009
Carnegie Mellon University Human-Computer Interaction Institute School of Computer Science	06-413/813: Human Factors Graduate/ Undergraduate level course	Fall, 2008
Carnegie Mellon University -Qatar, Interdisciplinary course Doha, Qatar	88-431: Dynamic Decision Making 5-week undergraduate level course	Summer, 2007

Carnegie Mellon University Information Systems Program College of Humanities & Social Sciences	67-271: Fundamentals of Systems Development Undergraduate level course	Fall, 2002, 2003, 2004, 2005
Carnegie Mellon University Human-Computer Interaction Institute School of Computer Science	05-610: Introduction to Human- Computer Interaction. Co-taught with Bonnie John Graduate/Undergraduate level course	Spring, 2001 2002
Carnegie Mellon University Information Systems Program College of Humanities & Social Sciences	88-275: Information Systems Applications. Co-taught with Larry Heimann and Randy Weinberg Undergraduate level course	Fall, 2000, 2001
Universidad de Las Americas Systems Engineering College of Engineering Puebla, Mexico	IS-323: Software Engineering I Undergraduate level course	Spring, 1996, 1997
Universidad de Las Americas Systems Engineering College of Engineering Puebla, Mexico	IS-325/621: Software Engineering II Graduate/Undergraduate level course	Spring, 1996, 1997
Universidad de Las Americas Systems Engineering College of Engineering Puebla, Mexico	IS-442: Introduction to Human- Computer Interaction Undergraduate level course	Spring, 1996, 1997
Universidad de Las Americas Systems Engineering College of Engineering Puebla, Mexico	IS-650: Decision Support Systems Undergraduate level course	Fall, 1996
Universidad de Las Americas Systems Engineering College of Engineering Puebla, Mexico	IS-291: Seminar in Computer Topics II Undergraduate level course	Fall, 1996

ADVISING

Post-doctoral Fellows

1. Dr. Farnaz Tehranchi, October 2020-present. Ph.D. Computer science (2020), Penn State University, State College, PA.
2. Dr. Thuy-Ngoc Nguyen, October 2019-present. Ph.D. Computer Science (2019), Free University of Bozen-Bolzano (UNIBZ), Bolzano, Italy.
3. Dr. Palvi Aggarwal, September 2018-present. Ph.D. Computer Science (2018), Indian Institute of Technology, Mandi, India.
4. Dr. Kuldeep Singh, April 2019- Present. Ph.D. in Computer Science (2018), Thapar University Patiala, India.
5. Dr. Hanshu Zhang, September 2019- August 2020. Ph.D. Human Factors and Industrial/Organizational Psychology (2019), Wright State University. Dr. Zhang took an Assistant Professor position in the school of Psychology at the Central China Normal University in Wuhan, China.
6. Dr. Korosh Mahmoody, September 2018-June 2020. Ph.D. Physics (2018), University of North Texas.
7. Dr. Pegah Fakhari, January 2018-December 2018. Ph.D. Psychological and Brain Sciences (2017), Indiana University. Dr. Fakhari moved to California as a freelance researcher.
8. Dr. Efrat Aharonov, September 2016 – August 2018. Ph. D. Psychology, Ben-Gurion University of Negev, Israel. Dr. Aharonov took a Researcher Position at CET-Center for educational Technology.
9. Dr. Prashanth Rajivan, December 2015 – August 2018. Ph. D. Applied Cognitive Science, Arizona State University. Dr. Rajivan took an Assistant Professor position at University of Washington.
10. Dr. Jeffrey Chrabaszcz, August 2017-August 2018. Ph.D. Neuroscience and Cognitive Science (2016), University of Maryland. Dr. Chrabaszcz took a Research Scientist position in the Software Engineering Institute at Carnegie Mellon University.
11. Dr. Michael Yu, May 2014-August 2016. Ph.D. Social and Decision Sciences (2014), Carnegie Mellon University. Dr. Yu took a Research Associate position at the Engineering and Public Policy department, Carnegie Mellon University.

12. Dr. Frederic Moisan, February 2014-December 2015, Ph.D. Computer Science and Economics (2014), University of Toulouse (IRIT and TSE), Toulouse, France. Dr. Moisan took a Researcher position at the Faculty of Economics, University of Cambridge, UK.
13. Dr. Emmanouil Konstantinidis, October 2014-October 2015. Ph.D. in Cognitive Science (2014), University College London, London, UK. Dr. Konstantinidis took a Post-doctoral fellow position at the school of Psychology at University of New South Wales, Australia.
14. Dr. Nathaniel Ashby, April 2014 - August 2015. Ph.D. Psychology (2014), Universitat Erfurt and Max Planck Institute, Erfurt, Germany. Dr. Ashby took a post-doctoral fellow position at the school of Industrial Engineering and Management, Technion, Israel.
15. Dr. Jason Harman, September 2012 - August 2015, Ph.D. Experimental Psychology (2012), Ohio University. Dr. Harman took an Assistant Professor position in the Psychology Department at Louisiana State University, USA.
16. Dr. Katja S. Mehlhorn, August 2012 - May 2014. Ph.D. Cognitive Psychology (2012), University of Groningen, Netherlands. Dr. Mehlhorn took a teaching position at the University of Groningen, Netherlands.
17. Dr. Shikhar Kumar, October 2012 - September 2013. Ph.D. Psychology and Cognitive Science (2012), The University of Arizona. Dr. Kumar took a Research Faculty position at University of Arizona.
18. Dr. Noam Ben-Asher, October 2011-August 2014. Ph.D. Industrial Engineering and Management (2011), Ben-Gurion University, Beer Sheva, Israel. Dr. Ben-Asher took a position as a research at the Army Research Laboratories, USA.
19. Dr. Muniba Saleem, August 2011 - June 2012. Ph.D. Social Psychology (2011), Iowa State University. Dr. Saleem took an Assistant Professor position in the Department of Behavioral Sciences at University of Michigan.
20. Dr. Sara Levens, August 2011 - June 2012. Ph.D. Psychology: Cognitive and Affective Neuroscience (2011), New York University. Dr. Levens took an Assistant Professor position in the Psychology Department at University of North Carolina at Charlotte, NC.
21. Dr. Varun Dutt, August 2011 - May 2012. Ph.D. Engineering and Public Policy (2011), Carnegie Mellon University. Dr. Dutt took an Assistant Professor Position in the School of Computing and Electrical Engineering and in the School of Humanities and Social Sciences at the Indian Institute of Technology, Mandi.
22. Dr. Jolie M. Martin, September 2009 - July, 2011. Ph.D. Science, Technology, and Management (2009), Harvard University. Dr. Martin took an Assistant Professor position in Strategic Communication at the University of Minnesota's School of Journalism and Mass Communication.
23. Dr. Tomas Lejarraga, October 2009 - August 2011. Ph.D. Economics and Management (2009), Pompeu Fabra University, Spain. Dr. Lejarraga took an Assistant Professor position in Management, School of Business, at the University of Balearic Islands, Spain.
24. Dr. Lelyn Saner, January 2008 - August 2009. Ph.D. Social Psychology (2008), University of Pittsburgh. Dr. Saner took a Research Faculty position at the University of Maryland's Center for Advanced Study of Language.
25. Dr. Angela Brunstein, September 2007 - May 2009. Ph.D. in Psychology (2007), University of Hamburg, Germany. Dr. Brunstein took a teaching faculty position at the Qatar campus of Carnegie Mellon University.
26. Dr. Poornima Madhavan, September 2005 - August 2007. Ph.D. Human Factors and Psychology (2005), University of Illinois at Urbana-Champaign. Dr. Madhavan took an Assistant Professor position in the Department of Psychology and Human Factors Program at Old Dominion University.
27. Dr. Wai-Tat Fu, September 2006 - May 2007. Ph.D. Psychology (2006) George Mason University. Dr. Fu took an Assistant Professor position in the Human Factors Department at the University of Illinois at Urbana-Champaign.
28. Dr. Matthew Cronin, January - June 2005. Ph.D. Organizational Behavior (2004), Carnegie Mellon University. Dr. Cronin took an Assistant Professor position in the School of Management at George Mason University.
29. Dr. Michael Martin, September 2004 - August 2007. Ph.D. Cognitive and Experimental Psychology (2003), University of Kansas. Dr. Martin took a Project Scientist position at the Institute for Software Research at Carnegie Mellon University.
30. Dr. Jose Quesada, September 2004 - May 2005. Ph.D. Psychology (2004), University of Granada, Spain. Dr. Quesada took a researcher position at the Adaptive Behavior and Cognition group at the Max Planck Institute in Berlin, Germany.
31. Dr. Rickey Thomas, September 2003 - July 2006. Ph.D. Psychology (2004), Kansas State University. Dr. Thomas took an Assistant Professor position in the Department of Psychology at Oklahoma University.

Doctoral students

Chair/Co-Chair of Ph.D. Dissertation Committee

1. McCormick, Erin, *Decisions under time pressure*. Department of Social and Decision Sciences, Carnegie Mellon University. 2015-present. My role: Co-Chair of Ph.D. dissertation committee.
2. Aggarwal, Palvi, *Deception in Cyber Security*. Applied Cognitive Science Laboratory, Indian Institute of Technology, Mandi, India. 2015-2018. My role: Co-Chair of Ph.D. dissertation committee.
3. Dutt, Varun, *Why do we want to defer actions on climate change? A psychological perspective*, Engineering and Public Policy, Carnegie Mellon University. 2011.
4. Graham, John. Dissertation: *Dynamic network analysis-based communication, network evolution and shared situation awareness*. Carnegie Mellon University, 2005. My role: Co-Chair of Ph.D. dissertation committee.

Member of Ph.D. Dissertation Committee

1. Kumar, Medha, *Reducing Misconceptions of Earth's Climate*. School of Computing and Electrical Engineering, Indian Institute of Technology, Mandi, India. 2015-present.

2. De La Maza, Cristobal, *Essays on behavioral discrete choice modelling: implications for public policy. Engineering and Public Policy*, Carnegie Mellon University, Pittsburgh, 2014-2018.
3. Mehlhorn, Sabine Katja, *Cognitive Models of Decision Making*, Psychology Department, University of Groningen, Netherlands. 2012.
4. Bergstrom, Jani, *Dynamic Decision Making in Crisis Management*, Department of Biomedical Informatics, Social Sciences. University of Eastern Finland, Finland, 2012. A Fulbright Scholar at the Dynamic Decision Making Laboratory (2011-2012).
5. Payne, Velma, *Effect of a Metacognitive Intervention on Cognitive Heuristic Use during Diagnostic Reasoning*, Department of Biomedical Informatics, School of Medicine, University of Pittsburgh. 2010.
6. Hill, Nicole, *Challenges for achieving skilled dual-task performance: Learning to release control*, LRDC: Learning Research and Development Center, University of Pittsburgh. 2009.

Graduate Research Assistants

1. McDonald, Chase, Department of Social and Decision Sciences, 2020-present.
2. Bugbee, Erin, Department of Social and Decision Sciences, 2020-present.
3. Du, YINUO, Information Networking Institute, 2020- present.
4. Butler, Alison, Department of Social and Decision Sciences, 2019-2020.
5. Sloman, Sabina, Department of Social and Decision Sciences, 2017-2018.
6. Haggmann, David, Department of Social and Decision Sciences. 2014-2018.
7. Yu, Michael, Department of Social and Decision Sciences. 2008-2014.
8. Ahn Young-Suk, Software Engineering Institute. 2010-2012.
9. Persoskie, Alex, Department of Social and Decision Sciences. 2007-2008.
10. Horn, Christopher. Human Computer Interaction Institute. 2004-2005.

Master students

1. Neo, Wei Siong, Social and Decision Sciences, Carnegie Mellon University. Master of Science in Social and Decision Sciences, 2007.
2. Wimisberg, Jakob, Social and Decisions Sciences, Carnegie Mellon University. Master of Science in Social and Decision Sciences, 2004.
3. Mendelez, Elizabeth. *Cooperative work environment in internet for management game*. Universidad de las Americas, Mexico, 1998.
4. Terrazas, Noemi. *Image and sound effects in solving problems with animated interfaces*. Universidad de las Americas, Mexico, 1997.
5. Garcia, Azbel. *Virtual environments as exposure treatment for agoraphobia*. Universidad de las Americas, Mexico, 1997.
6. Torrijos, Teresa. *2D or 3D? An empirical investigation for decision making in architecture*. Universidad de las Americas, Mexico, 1996. My role: Chair of master's thesis.
7. Velazco, Adriana. *Instruction support system for children with mental deficiencias: The Montessori technique*. Universidad de las Americas, Mexico, 1996.

Undergraduate students

1. Disha Das, Fall 2020, Computer Science and Decision Science
2. Andrew Ye, Spring 2020, Statistics and Machine Learning
3. Max Gamerman, Fall 2019-Spring 2020, Social and Decision Sciences
4. Peijie He, Fall 2019-Spring 2020, Social and Decision Sciences
5. Max Yeh, Fall 2019, Social and Decision Sciences
6. Qiao Shen, Fall 2018, Psychology
7. Samuel Cheyette, Fall 2015- Fall 2016, Psychology
8. Karen Lee, Spring 2012, Social and Decision Sciences
9. Michelle Lin, Fall 2011-Spring 2012, Social and Decision Sciences
10. Tina Hwang, Fall, 2011, Social and Decision Sciences
11. Olivia DeFazio, Spring, 2010, Social and Decision Sciences
12. Sylvia Lee, Spring 2008, Public Policy Management
13. Haritha Dasari, Fall 2007, Information Systems
14. Colleen Vrbin, Fall 2006-Fall 2007, Social and Decision Sciences
15. Aanand Radia, Fall 2006, Social and Decision Sciences

Visitors, DDMLab

1. Phan Duy Nhat, April 2021-August 2021. Ph.D. in Applied Mathematics, University of Lorraine, France.
2. Gulati, Aditya, June 2020-May 2021. Master student at the International Institute of Information Technology, Bangalore, India.
3. Singh, Kuldeep. September 2018- March 2019. Ph.D. in Computer Science, Thapar University Patiala, India.
4. Ho, Emily. September- December, 2017. Ph.D. Student, Psychometrics and Quantitative Psychology, Fordham University, New York City.
5. Dugarte-Pena, German Lenin. September-December, 2017. Ph.D. Student, Systems Engineering. University of Carlos III, Madrid, Spain.

6. Chavez, Melisa. February-May, 2017. Ph.D. Student, Psychology. National Autonomous University of Mexico (UNAM), Mexico City.
7. Sriwattanakomen, Nalyn. June, 2015- May, 2016. B.Sc. Psychology and minor in Gender and Women's studies. Washington & Jefferson College, Washington, PA.
8. Sun, Hui. July-September, 2015. B.Sc., BA in Digital Entertainment Design. Tsinghua University, Beijing, China.
9. Gharbi, Hassen. October 2014-August 2015. Full-Bright scholar. Assistant Professor at the National School of Computer Sciences, University of La Manouba, Tunis, Tunisia.
10. Ten Brincke, Robert. August-October 2014. PhD student in Decision Theory and Behavioral Game Theory. Swiss Federal Institute of Technology (ETH), Zurich, Switzerland.
11. Wu, Fanting (Angela). July-October 2014. Undergraduate student. Department of computer Science and Technology. Sun Yat-Sen University. Guangzhou, China.
12. Qi, Liang. December 2013-November, 2014. Ph.D. student. Department of Health Service, Second Military Medical University. Shanghai, China.
13. Yi, Pingtao. December 2013-November 2014. Associate Professor. School of Business Administration, Northeastern University, Shenyang, China.
14. Gupta, Sukrit. December 2013-May 2014. Undergraduate student. Computer Science and Engineering. PEC University of Technology, Chandigarh, India.
15. Becker, Vincent. October 2013-February 2014. Undergraduate student. Computer Science, Cognitive Systems Laboratory (CSL), Karlsruhe Institute of Technology, Karlsruhe, Germany.

INVITED TALKS

- 2021 May 7. *Cognitive Models Inform Epidemiological Models*. NSF Panel on Bridging disciplinary divides for behaviorally modulated mathematical models in human epidemiology.
- 2021 May 4. *How Group Learning Unfolds from Individuals: Interdependence, Aggregation, and Strategy*. Neuroeconomics Colloquium. Institute for the Study of Decision Making. New York University.
- 2020 December 15. *How Group Behavior Unfolds from Individuals: Interdependence, Aggregation, and Strategy*. Neuro-COGNiMATH- Psychology Department – Benemerita Universidad Autonoma de Puebla.
- 2020 December 1. *From Individual to Organizational Learning: Exploration and Exploitation Tradeoffs*. Experimental Organization Science (EOS) online seminar.
- 2020 November 19. *Toward Personalized Deceptive Signaling for Cyber Defense Using Cognitive Models*. Symposium on Human Factors. Psychonomic Society Annual Meeting.
- 2020 May 26. *Design of Personalized Deception: A Research Framework and New Insights for Cyber Defense*. Cognition and Perception seminar. University of Washington.
- 2019 September 15. *Design of Dynamic and Personalized Deception: A Research Framework and New Insights for Cyber Defense*. Computational Cybersecurity in Compromised Environments (C3E). September 15-17. Stanford, Menlo Park, CA.
- 2019 September 9-13. *Emergence of Collective Behavior and Networks from Individual Choices*. Collective Intelligence: Theories and Applications. Bari, Italy.
- 2019 July 19. *Moments@Work: Advancing Sensitivity to Diversity Through Experiential Learning*. Women of Mathematical Psychology. Mathematical Psychology Conference, July 19-22, Montreal, Canada.
- 2019 July 8. *Dynamic Decisions in Humans*. Reinforcement Learning and Decision Making (RLDM) Conference. July 7-9. Montreal, Canada.
- 2019 April 29. *Use of Deception in Cyber Defense*. NSA Research meeting, Carnegie Mellon University.
- 2019 March 12. *Decisions from Experience in Dynamic Environments: Learning Processes and Cognitive Challenges*. Psychology Department. NYU_Abu Dhabi.
- 2018 November 29. *Human Failure in Stock and Flow Problems: An Updated Review*. **Plenary talk**. I Congreso Iberoamericano de Soluciones Sistemicas y Transformacion Organizacional (I CISTO, 2018). November 28-30. San Lorenzo de El Escorial. Madrid, Spain.
- 2018 October 2. *Past President's Forum: Human Factors/Ergonomics and Multidisciplinary Collaboration: Challenges and Lessons Learned*. Human Factors and Ergonomics Society, HFES, 2018. October 1-5, Philadelphia, PA.
- 2018 September 18. *Human Decisions on Targeted and Non-Targeted Adversarial Samples*. Computational Security in Compromised Environments (C3E). Atlanta, GA.
- 2018 September 13. *Scaling up models of Decisions from Experience*. Decisiones a Partir de la Experiencia. Workshop. Universidad Nacional Autonoma de Mexico. Facultad de Psicologia. Mexico City, Mexico.
- 2018 August 7. *Stock & Flow Failure: Correlation Heuristic and Valence Effects*. **Plenary talk**. 36th International Conference of the System Dynamics Society, Reykjavik, Iceland, August 6-10, 2018
- 2018 June 29-30. *Scaling up models of individual learning to organizational learning*. **Key Note lecture**. Theoretical Organization Models (TOM) conference. INSEAD Fountainbleau, France.
- 2018 June 4. *Emerging Technologies*. Robust Social Science Workshop. St. Petersburg, FL.
- 2018 May 24. *CyberDeception*. Security & Human Behavior Workshop. Carnegie Mellon University, Pittsburgh, PA.
- 2018 May 7. *Human Failure in Stock and Flow Problems: An Updated Review*. System Dynamics Workshop. RAND Corporation. Arlington, VA.
- 2018 May 7. *Human Decisions on Targeted and Non-Targeted Adversarial Samples*. 2nd. ARO/IARPA Workshop on Adversarial Learning. University of Maryland, College Park, MD.

- 2018 April 16. *Scaling up models of decisions form experience: From individuals to networks*. Workshop on Integrating Different Perspectives on Social Learning. Santa Fe Institute. Santa Fe, NM.
- 2018 February 22. *Algorithms and Decision-Making*. Discussant. The Terminator or the Jetsons? The Economics and Policy Implications of Artificial Intelligence. The Technology Policy Institute. Washington, DC.
- 2017 December 7. *Cognitive Computing and Cyber Security*. Webinar, Infosecurity Magazine. Online.
- 2017 October 30. *The Psychology of Deception in the Cyber World*. First International Workshop on “Cyber Deception and Defenses”, Dallas, Texas.
- 2017 September 22. *Adaptation to Change*. Science At Home. Department of Physics and Astronomy. Aarhus University, Aarhus, Denmark.
- 2017 September 20. *Adaptation to Change*. Danish Institute for Advanced Study (D-IAS), University of Southern Denmark. Odense, Denmark.
- 2017 June 8. *Human Factors in Firearm Analysis*. Center for Statistics and Applications in Forensic Science (CSAFE, 2017 All Hands Meeting), Ames, IA, USA.
- 2017 March 10. *Human Failure in Stock and Flow Problems: An Updated Review*. Sloan School of Business, Massachusetts Institute of Technology. Boston, MA, USA.
- 2017 January 26. *Adaptation to Change*. Affective Brain Lab. University College London, London, UK.
- 2017 January 10. *Psycho-Social aspects of cyber security: why is human (still) the weakest link?*. SaTC PI meeting, NSF, Washington DC, USA.
- 2016 November 17. *Dynamic Decision Making in Complex Environments*. National League of Cities, City summit. Pittsburgh, PA, USA.
- 2016 November 9. *Human Factors in Identification Decisions: Cross-Cutting Interdisciplinary Research*. Forensics at NIST. Gaithersburg, MD, USA.
- 2016 October 11. *Information and Decisions: Description and Experience Come Together in Individual and Social Interactions*. Santa Fe Institute. Santa Fe, NM, USA.
- 2016 August 24. *How to get funding: a personal view*. 2016 Incoming Faculty Orientation. Carnegie Mellon University. Pittsburgh, PA, USA.
- 2016 August 8. *Reflections on unresolved psychological problems for a cognitive architecture*. ACT-R 2016 Post-Graduate Summer School. Lancaster, PA, USA.
- 2016 July 29. *Games, Game-Theory, and the Science of Cybersecurity*. Panel on Cognitive and Behavioral Modeling for Military Functions. First international conference in Virtual Reality and Simulation. Part of the 7th International Conference on Applied Human Factors and Ergonomics. Orlando, FA, USA.
- 2016 July 29. *Cognitive Models in Cybersecurity*. Panel on The Risk/Utility Tradeoff in Cybersecurity. Second International Conference on Human Factors in Cybersecurity. Part of the 7th International Conference on Applied Human Factors and Ergonomics. Orlando, FA, USA.
- 2016 June 27. *Information and Decisions: Description and Experience Come Together*. Plenary roundtable on Dynamics and Ambiguity. Foundations of Utility and Risk (FUR) conference. Hosted by the interdisciplinary behavioural science group at the University of Warwick. Coventry, UK.
- 2016 February 4. *Behavioral Game Theory and Cyber Security*. USC/ARO Workshop on Cyber-Physical Security: Challenges and Approaches. University of Southern California. Los Angeles, CA.
- 2016 January 13. *Dynamic Decision Making: Learning Processes and Cognitive Challenges*. Cognitive Science Brownbag, Learning Research and Development Center (LRDC), University of Pittsburgh.
- 2015 June 15. *The Role of Behavioral Science in Mission Assurance for Cybersecurity*. Workshop on Attack Detection, Forensics and Attribution for Assessment of Mission Impact. June 15-17, 2015, Istanbul, Turkey. The Information Systems Technology (IST) NATO panel.
- 2015 February 26. *Creating Cognitively-Aware Decision Support Technology*. **Key Note lecture**. Conielectomp 2015. The 25th International Conference on Electronics Communications, and Computers. Universidad de las Americas, Cholula, Puebla, Mexico. February 25-27, 2015.
- 2015 February 14. *Human Decision Making in CyberSpace*. AAAS 2015 Annual meeting. San Jose CA. February 12-16, 2015.
- 2014 June 23. *Human Decision Making in a Cyber World: Some Research Challenges*. 13th Annual Workshop on the Economics of Information Security. Pennsylvania State University. June 23-24, 2014.
- 2014 April 23. *Human Decision Making in Cyberspace*. NSF SaTC CyberSpace 2015 Workshop (CyberSpace 2025). Panel on Social, Behavioral, and Economic S&T. Washington, DC. April 22-23, 2014.
- 2014 March 14. *CyberWar Game: A paradigm for understanding new behavioral challenges for Cyber War*. Workshop on Cyber Warfare: Building the Scientific Foundation. George Mason University, Fairfax, VA.
- 2014 February 21. *Unification and Simplification Dilemma of Cognitive Architectures*. Workshop on Problem Solving and Dynamic Decision Making (EPSDDM). University of Essen. Essen, Germany.
- 2014 February 20. *Dynamic Decision Making: Learning Processes and Cognitive Challenges*. Workshop on Problem Solving and Dynamic Decision Making (EPSDDM). University of Essen. Essen, Germany.
- 2014- January 25. *Dynamic Decision Making: Learning Processes and Cognitive Challenges*. Learning, bounded rationality and decisions. Three related workshops and a winter school. Israel, January 23-29, 2014.
- 2013- September 20, *Dynamic decision making: Learning processes and cognitive challenges*. Forecasting, monitoring, controlling: Dealing with a dynamic world. University College London. London, UK.
- 2013- July 24, *Cognitive challenges for making decisions in dynamic systems*. Panel on Assessing Systems Thinking Across Skill Levels. 31st. International Conference of the System Dynamics Society. Boston, MA.

- 2013-July 15, *Decisions from experience in advanced technological systems*. Technical University of Berlin. Berlin, Germany.
- 2013- July 12, *Dynamics of cooperation with varied information*. 15th International Conference on Social Dilemmas. ETH Zürich, Switzerland.
- 2013- April 9, *Emergence of cooperation with increased information: Explaining the process with an instance-based learning model*. Center for Adaptive Rationality. Max Planck Institute. Berlin, Germany.
- 2013- April 5, *Decisions from Experience*. School of Psychology. University of Basel. Basel, Switzerland.
- 2013 - February 20, *Making Decisions from Experience: Explaining sampling and repeated choice with Instance-Based Learning Cognitive Models*. Psychology Department. University of North Carolina, Charlotte.
- 2012- December 12, *Making Decisions from Experience in Cyber-Security*. CyLab Usable Privacy and Security Lab, seminar series. Carnegie Mellon University, Pittsburgh.
- 2012- October 4. *How do we make risky decisions from experience?: An Instance-Based Learning Model explains the process*. International Workshop on Experimental Economics and Finance. Karlsruhe, Germany.
- 2012- September 6. *Making Decisions from Experience: Explaining Sampling and Repeated Risky Decisions with Instance-Based learning Cognitive Models*. Behavioral Decision Research Seminar. Carnegie Mellon University, Pittsburgh.
- 2012- April 15. *Human Performance Modeling*. International Conference on Cognitive Modeling. ICCM 2012. April 13-15, 2012. Berlin, Germany.
- 2012- March 28. *Decisions from Experience in Advanced Technological Systems*. **Key Note lecture** for the annual meeting of the Mexican Society of Computer Science. Salamanca, Mexico.
- 2012- February 1. *Instance-Based Learning: Integrating Decisions from Experience in Sampling and Repeated Choice Paradigms*. Cognitive Science Colloquium. Psychological and Brain Sciences. Indiana University, Bloomington.
- 2011- December 10. *Instance-Based Learning: Integrating Decisions from Experience in Sampling and Repeated Choice Paradigms*. International Conference on Decision Making. University of Allahabad, India.
- 2011- November 20. *The Description - Experience Gap in Decisions under Uncertainty*. Commemorative Colloquium for Horacio Arlo-Costa. Center for Formal Epistemology. Department of Philosophy. Carnegie Mellon University.
- 2011- October 14. *A Game-Theoretic Approach to Study Cyber Situation Awareness*. Second ARO Workshop on Moving Target Defense. October 13-14, 2011. University of Maryland. Fairfax, VA.
- 2011- August 24. *How do I get Research Grants?* Early Career Networking Event. 23rd. Subjective Probability, Utility, and Decision Making Conference (SPUDM 2011). August 21-25, 2011. Kingston University, London, UK.
- 2011- July 18. *The Dilemma of Unification and Simplification in Cognitive Architectures*. ACT-R Post-Graduate Summer School 2011. July 17-19, 2011. White Mountain Hotel & Resort. North Conway, NH.
- 2011- June 10. *Decisions from Experience in Advanced Technological Systems*. Human Factors Program. Industrial and Systems Engineering seminar. University of Buffalo.
- 2011- March 30. *A Loser Can Be a Winner: Comparison of Two Instance-Based Learning Models in a Market Entry Competition*. Games and Decisions Seminar. Philosophy Department. Carnegie Mellon University.
- 2011- March 25. *Instance-Based Learning Theory: A General Computational Approach to Modeling Human Decisions from Experience*. **Key Note** speech for the annual meeting of the Mexican Society of Computer Science. Toluca, Mexico.
- 2011- March 21. *Instance-Based Learning Tool: Making Instance-Based Learning Theory Usable, Transparent, and Understandable*. Invited tutorial presented at the 20th Behavior Representation in Modeling and Simulation (BRIMS) conference. March 21-24, 2011. Sundance Resort, Utah, USA.
- 2011- February 10. *Instance-Based Learning Models of Cyber Situation Awareness*. Cyber Situation Awareness Workshop. Cognitive Engineering Research Laboratory. Arizona State University.
- 2010- October 8. *Instance-Based Models of Decision Making*. International Symposium of Scientific Computing for the Cognitive Sciences. October 6-8, 2010. Heidelberg University, Germany.
- 2010- October 5. *Instance-Based Learning Tool: Integrating Models of Decisions from Experience*. Invited tutorial for graduate students. Heidelberg University, Germany.
- 2010- September 24. *Socio-Cognitive Factors that Influence Cooperative Behavior: An Examination with fMRI*. Interdisciplinary Symposium on Decision Neuroscience. September 23-25, 2010. Fox School of Business, Temple University, Philadelphia, PA.
- 2010- June 4. *Dynamic Decision Making Games: Lessons and Challenges from Learning Theories*. Games in Engineering and Computer Science Workshop (GECS 2010). June 3-4, 2010. Arlington, VA.
- 2010- April 24. *The Role of Culture in Dynamic Decision Making: Conflict Resolution in PeaceMaker*. The Gavriel Salvendy International Symposium on Frontiers in Engineering. Focus on "Cultural Factors in Decision Making and Action." April 23-24. Purdue University, Indiana.
- 2010- March 16. *Developing New Metrics for Shared Situation Awareness*. HFES "Meet the Authors" Webinar. Tuesday, March 16, 2010. 1:00-2:00PM EDT.
- 2009- April 1. *Predicting Performance in Open-ended Dynamic Tasks: A Model Comparison Challenge*. Comparing the Comparisons Symposium on Model Comparison. Conference on Behavior Representation in Modeling and Simulation (BRIMS, 2009). Salt Lake City, Utah.
- 2009- March 4. *Training Decisions from Experience with Decision Making Games*. Workshop on Adaptive Technologies for Army Training and Education. Army Research Institute, Charleston, SC.
- 2009- February 24. *Dynamic Decision Making and Training for Emergency Triage*. Triage, Science and Technology Symposium. Children Hospital Los Angeles, Los Angeles, CA.
- 2008- September 11. *Dynamic Decision Making and Training*. Pediatric Disaster Preparedness National Summit. Los Angeles, CA.

- 2008- August 16. *Decision Making in Dynamic and Complex Environments*. Symposium Chair, showcasing the Dynamic Decision Making Laboratory at Carnegie Mellon University. APA annual convention. Division 21. Boston, MA.
- 2008- August 12. *An Instance-Based Learning Model of Repeated Binary Choice*. Symposium: Beyond Biases: the Influence of Experience on Managerial Decision Making. Winner of making connections award, sponsored by the OB Division. Academy of Management Annual Meeting. Anaheim, CA.
- 2008- August 12. *Determinants of Public Conference in Government Ability to Prevent Terrorism*. Symposium: Disaster Response Planning and Management: Studies of Integrated Planning and Action. Academy of Management Annual Meeting. Anaheim, CA.
- 2008- July 24. *Why don't well educated adults understand accumulation?* Third Annual Behavioural Operations Conference. University of Alberta, School of Business. Edmonton, Canada.
- 2008- July 16. *Dynamic Decision Making in Complex Environments*. Second International Conference on Applied Human Factors and Ergonomics. Las Vegas, NV.
- 2008- April 17. *Human Learning in Dynamic Environments*. Industrial and Mechanical Engineering Department seminar. University of Massachusetts, Amherst, MA.
- 2008- April 11. *Human Learning in Dynamic Environments*. Medical Education Rounds. University of Pittsburgh, Pittsburgh, PA.
- 2008- April 3. *PeaceMaker-based Research for Decision Making and Diplomacy*. The future of Interactive Technology for Peace. Carnegie Mellon University, Pittsburgh, PA.
- 2008- February 21. *A comprehensive Psychological Model for Robust Decision Making in Luggage Screening*. Information Sciences and Technology. Penn State University, State College, PA.
- 2007- December 7. *Robust Decision Making in Dynamic Environments*. Center for Neural Basis of Cognition Seminar. Carnegie Mellon University, Pittsburgh, PA.
- 2007- November 5. *Making Robust Decisions in Dynamic Environments*. Business Transformation and IT Strategy Program. Tepper School of Business. Carnegie Mellon University, Pittsburgh, PA.
- 2007- October 26. *Dynamic Decision Making Research*. Second International Engineering Week. October 24-26, 2007. Tecnológico de Monterrey. Cuernavaca, Morelos, MEXICO.
- 2007- October 21. *Dynamic Decision Making*. Short Course on the Introduction to Psychology of Medical Decision Making. 29th Annual meeting of Medical Decision Making. October 20-24, 2007 Pittsburgh, PA
- 2007- October 17. *Microworlds in Dynamic Decision Making Research*. Workshop on Microworlds Research on Dynamic Decision Making. Defense Research and Development Canada. Toronto ON, Canada.
- 2006- December 12. *Heterogeneity of Practice in Airport Security Screening*. Systems Dynamics Seminar. Argonne National Laboratory. Chicago, IL.
- 2006- October 25. *ACT-R Models of Training*. Issues in Cognitive Science. Cognitive Science Department seminar series. Rensselaer Polytechnic Institute (RPI). Troy, NY.
- 2006- August 15. *Learning and feedback in dynamic decision making*. Symposium on Learning and Feedback. Academy of Management Annual Meeting. Atlanta, GA.
- 2006- June 23. *Dynamic Decision Making*. Round Table on Dynamic Decision Making. 12th International Conference on the Foundations and Applications of Utility, Risk and Decision Theory. Rome, Italy.
- 2005- June 5. *Automaticity development and decision making in complex, dynamic tasks*. ONR Cognitive Architectures meeting, Carnegie Mellon University, Pittsburgh, PA,
- 2005- March 14. *Learning in real-time dynamic decision making*. Sloan School of Management, MIT, Boston, MA,
- 2004- August 20. *Learning to make decisions in dynamic environments: Instance-based cognitive models*. New and Alternative Directions for Learning Workshop, Carnegie Mellon University, Pittsburgh, PA,
- 2004- May 17. *Practical Applications of Cognitive Modeling Symposium*, Conference of Behavior Representation in Modeling and Simulation, Arlington, VA,
- 2003- August. *Computational models of situation awareness*. 7th Annual ACT-R Workshop, Carnegie Mellon University, Pittsburgh, PA.
- 2003- May 12. *Understanding and Evaluating High Level Cognitive Processes*. Symposium, 12th Conference on Behavior Representation in Modeling and Simulation (BRIMS), Scottsdale, AZ.
- 2003- May 3. *Learning in dynamic decision making*. Information Aggregation in Decision Making Workshop, Department of Psychology, University of Maryland, College Park, MD.
- 2002- August 3. *Modeling coordination in team dynamic resource allocation*. 6th Annual ACT-R Workshop, Carnegie Mellon University, Pittsburgh, PA.
- 2002- June 23. *A cognitive model of attention control for multitask problem solving*. Computational and Mathematical Organization Theory Conference, Carnegie Mellon University, Pittsburgh, PA.
- 2001- October 23. *Instance-based decision making in dynamic environments: Modeling the learning process*. Recognition-Primed Decision Making Workshop, Boulder, CO.
- 2001- July 6. *Instance-based decision making in dynamic environments: Modeling the learning process*. Computational and Mathematical Organization Theory Conference, Pittsburgh, PA.
- 1999- August 27. *Cognitive modeling in real-time dynamic decision making*. Seminar for Computer Scientists, University of the Americas-Puebla (UDLA), Cholula, Puebla, Mexico.
- 1999- August 6, *ACT-R learning in a real-time dynamic decision-making task*. 6th Annual ACT-R Workshop, George Mason University, Fairfax, VA.
- 1997- September 12. *An empirical study of the use of sound at the interface in problem solving*. Primer Encuentro de Computación, Querétaro, Mexico.

- 1997- September 11. *Interaccion humano-computadora: Introduccion* (Human-Computer Interaction: An Introduction) Primer Encuentro Nacional de Computacion, Querétaro, Mexico.
- 1990- September 26. *SISCONFIN: Sistema contable y financiero* (SISCONFIN: Accounting and Financial System). 2nd Computer Seminar for Administration in Universities of Latin America, National Autonomous University of Mexico, Mexico City, Mexico.
-

PROFESSIONAL SOCIETIES, EDITORIAL ACTIVITIES AND SERVICE

Carnegie Mellon University Service

- 2020-2021 Chair, Reappointment, Promotion and Tenure Committee, Dietrich College
- 2015-2019 Faculty Committee on Diversity and Inclusion. In charge of advising Provost for faculty, Kathryn Roeder on improving recruitment and retention of diverse, world-class faculty.
- 2017-2018 General Education Curriculum, Dietrich College of Humanities and Social Science. Appointed to serve as Chair of Diversity and Inclusion subcommittee.
- 2016-2018 Reappointment, Promotion and Tenure University Committee

Editorial Panelist and Review Service

- 2021-present-Associate Editor – *TopiCS*.
- 2014-present- Consulting Editor – *Decision*.
- 2013-present- Associate Editor - *System Dynamics Review*.
- 2020-present- Member of Editorial Board – *Cognitive Science: A Multidisciplinary Journal*.
- 2018-present- Member of Editorial Board - *Journal of Experimental Psychology: General*.
- 2015-present- Member of Editorial Board - *Journal of Dynamic Decision Making*.
- 2013-present- Member of Editorial Board - *Journal of Behavioral Decision Making*.
- 2013-present- Member of Editorial Board - *American Journal of Psychology*.
- 2007-present- Member of Editorial Board - *Human Factors Journal*.
- 2016-2020- Associate Editor – *Cognitive Science: A Multidisciplinary Journal*.
- 2008-2018- Associate Editor - *Journal of Cognitive Engineering and Decision Making*.

Ad hoc reviewer for Journals (partial list): Behavioral and Brain Sciences; Psychological Review; Cognition; Journal of Experimental Psychology: Learning, Memory and Cognition; Journal of Experimental Psychology: Applied; Journal of Economic Psychology; Psychonomic Bulletin and Review; Management Science; Organizational Behavior and Human Decision Processes; System Dynamics Review; Systems; Journal of Conflict Resolution; European Journal of Operations Research.

Ad hoc reviewer for Conferences (partial list): Academy of Management; Conference on Human Factors in Computing Systems (CHI conference); Conference on System Dynamics; Cognitive Science Conference; Americas Conference on Information Systems; Behavior Representation in Modeling and Simulation (BRIMS conference); International Conference on Cognitive Modeling (ICCM).

Panelist and reviewer for Granting Agencies (partial list): National Science Foundation (NSF); National Institute of Health (NIH); Air Force Office of Scientific Research (AFOSR); Army Research Office (ARO); Israeli Science Foundation (ISF); European Science Foundation (ESF).

Professional Societies and Conferences

Human Factors

- 2008- present – member of the Human Performance Modeling Technical Group (HFES)
- 1994- present – member of the Human Factors and Ergonomic Society (HFES)
- 2004- present – member of the Cognitive Engineering and Decision Making Technical Group (HFES)

Conference Service

- 2009-2015 - Chair, General Sessions. Annual Meeting of the Human Factors and Ergonomics
- 2009 - Co-Founder, Human Factors and Ergonomics Society Local Chapter. (HFES-2009). Pittsburgh, PA, 2009.
- 2009 - Co-Chair, General Sessions. 53th Annual Meeting of the Human Factors and Ergonomics Society (HFES-2009), San Antonio, TX, October 19-23, 2009

Cognitive Science

- 2009- present – member of the Association for Psychological Science
- 1998- present – member of the Cognitive Science Society

Conference Service

- 2014-present - Technical Program Committee, Annual meeting of the Cognitive Science Society.

Decision Science

- 2010- present – member of the European Association for Decision Making
- 2008-2012 - member of the Society of Risk Analysis
- 2001- present – member of the Society for Judgment and Decision-Making

Conference Service

- 2021 – Scientific Committee. Subjective Probability Utility & Decision Making (SPUDM 2021). 22-24 August 2021. University of Warwick.
- 2011- 2012- Technical Program Committee, IEEE Conference on Cognitive Methods in Situation Awareness and Decision Support (CogSIMA-2012).
- 2010 - Program Committee, Behavioral Decision Research in Management (BDRM 2010) conference. Pittsburgh, PA, June 10-13, 2010.

1999- Session Chair, Integrating Data Management and Human Decisions, 5th International Conference of the Decision Sciences Institute (DSI 1999), Athens, Greece, July 4–7, 1999

System Dynamics

2001- present – member of the System Dynamics Society

Conference Service

2017- present- Technical Program Committee, System Dynamics Conference.

Management Science

2006- 2019 – member of the Academy of Management

Computer Science/Information Sciences/Human-Computer Interaction

1993-2013 – member of the Association for Computer Machinery

1993-2013 – member of the Computer-Human Interaction Special Interest Group

Conference Service

2021 – General Chair. Conference on Decision and Game Theory for Security. GameSec 2021, October 25-27, 2021, Prague, Czech Republic.

2012- Technical Program Committee, 11th International Conference on Cognitive Modeling (ICCM 2012), Berlin, Germany, April 13-15, 2012.

2005-2012- Technical Program and Organizing Committee, Conference on Behavior Representation in Modeling and Simulation (BRIMS).

2005 - Technical Program and Organizing Committee, 2nd Latin American Conference in Human-Computer Interaction, (CLIHC-2005), Cuernavaca, Mexico, October 2005

2003 - Co-Chair, 1st Latin American Conference in Human-Computer Interaction, (CLIHC-2003), Rio de Janeiro, Brazil, August 17–20, 2003

2003-2007 Vice President, CHI-Mexico (Local chapter of the Special Interest Group in Human-Computer Interaction in Mexico [ACM-SIGCHI]).

1999 - Founder and Chair, CHI-Mexico (Local chapter of the Special Interest Group in Human-Computer Interaction in Mexico [ACM-SIGCHI]), 1999–2002

1999 - Technical Program and Organizing Committee, Human-Computer Interaction Interest Group, Segundo Encuentro de Computación, Pachuca, Mexico, September 1999

1998 -International Issues Committee (IIC), SIGCHI, Conference on Human Factors in Computing Systems (CHI-1998).

Conference, Workshop, Symposia Organization

2015 – Information and Decisions: Decisions from Description and Experience Come Together in Individual and Social Interactions. Carnegie Mellon University. Invited speakers: Peter Wakker and Ryan O. Murphy. Pittsburgh, PA, April 21, 2015.

2013 - Trends in Decision Making Research: How Can They Change Cognitive Engineering and Decision Making in Human Factors? International Annual meeting of the Human Factors and Ergonomics Society (HFES). Co-chaired with Joachim Meyer. Invited Speakers: Gary Klein, Frank Yates, and Alvin Roth (Nobel Laureate). San Diego, CA, Tuesday, October 1, 2013. pp. 163-166.

2013 - Predicting Choice from Exploration. 9th Invitational Choice Symposium. Huis ter Duin, Noordwijk, The Netherlands. With Katja Mehlhorn. Invited Speakers: V. Braithwaite, K. Fiedler, D. Hausmann, M.D. Lee, K. Morgan, B. Newell, P. Todd. June 12-16, 2013.

2013 - Predicting Choice from Exploration. 25th Association for Psychological Science (APS). With Katja Mehlhorn. Invited Speakers: J. Wolfe, P. Pirolli, R. Hertwig. Washington, D.C. May 23-26, 2013.

2010 - Experience, Heuristics, and Choice: Prospects for Bounded Rationality. Carnegie Mellon University. With Horacio Costa. Invited Speakers: R. Hertwig, J. Leland, P. Pedersen, E. Weber, J. Busemeyer, T. Pleskac, J.D. Trout. Pittsburgh, PA, December 1, 2010.

2005 - 2nd Latin American Conference in Human-Computer Interaction, (CLIHC-2005), Cuernavaca, Mexico, October 2005. Organizing Committee.

2003 - 1st Latin American Conference in Human-Computer Interaction, (CLIHC-2003), Rio de Janeiro, Brazil, August 17–20, 2003. Conference Co-Chair.

2002 - Special Interest Group, HCI in Latin America: Consolidating a Community, Conference on Human Factors in Computing Systems, (CHI-2002), Minneapolis, MN, April 20–25, 2002. With Alfredo Sanchez.

2001- Development Consortium, Conference on Human Factors in Computing Systems (CHI-2001), Seattle, WA, March 31–April 2, 2001

1999- Special Interest Group: Encouraging CHI Collaboration in Latin America, Conference on Human Factors in Computing Systems (CHI-1999), Pittsburgh, PA, May 20, 1999

1998 - Current Trends and Applications of Artificial Intelligence in Education, 4th World Congress on Expert Systems, Mexico City, Mexico, March 16–20, 1998

CONSULTING

Army Research Laboratory Human Research and Engineering Directorate (ARL-HRED). Consulting services for the Development of a Cognitive Model of a Robotics Operator Manager in a Networked Environment. May 2010-May 2011.

Argonne National Laboratory. Elicitation of Experimental Data of Public Confidence in Government to Prevent Terrorism. February-May 2008.

National Institute for Occupational Safety and Health (NIOSH). Mine Emergency Decision Making. June-August 2008.
Lecturer, Executive Program for VW GEDAS (Volkswagen's consulting company in information technology), S.A. courses hosted by Benemerita Universidad Autonoma de Puebla, Puebla, Mexico, 1998–1999
Lecturer, Executive Program for PEMEX (Mexican oil company), Villahermosa, Tabasco, Mexico, 1996
Manager and Project Leader, Accounting and Financial System for IEPISA Group, Mexico City, Mexico, 1989–1990
Project Leader, Administrative Procedures and Information Analysis for Consorcio La Margarita de Puebla, S.A. INFONAVIT, Puebla, Mexico, 1988
Lecturer, Technical Institute of Computers, Puebla, Mexico, 1984–1985

CONTINUING PROFESSIONAL EDUCATION

The 2010 Fourth Annual Advanced Neuroimaging Summer Program by Mark Cohen and Susan Bookheimer. Institute for Neuroscience and Human Behavior, UCLA campus, with funding from the National Institutes of Health. July 12-23, 2010.
Business Dynamics by John Sterman, Jay W. Forrester, Nelson Repenning, and Peter Senge. Executive Program. MIT Sloan School of Management, Cambridge, Massachusetts. June 12-16, 2006.
First Summer Institute on Bounded Rationality by Gerd Gigerenzer. Max Planck Institute for Human Development. Center for Adaptive Behavior and Cognition. Berlin, Germany. August 8-17, 2001.
Cognitive Processes by Hebert A. Simon. Graduate course in the Department of Psychology. Carnegie Mellon University. Fall, 1999.
Production Systems Models of Thought by John R. Anderson. Graduate course in the Department of Psychology. Carnegie Mellon University. Spring, 1998.
Intuitive Statistics for HCI Professionals: Developing Understanding and Avoiding Errors by Johnson Jeffries. 8 hours tutorial. CHI'95 conference, Denver, Colorado, 1995.
Presenting Data and Information by Edward Tufte. 8 hours tutorial. Dallas, Texas, 1995.
Methods of Perceptual and Cognitive Research Applied to Interface Design and Testing by Douglas J. Gillan and Nancy J. Cooke. 8 hours tutorial. CHI'94 conference. Boston, Massachusetts, 1994.
Presenting Information Visually: Visual Design Principles and Interactive Design Studio by Suzanne Watzman, Dan Boyarski, and Virginia Howlett. 8 hours tutorial. CHI'94 conference, Boston, Massachusetts, 1994.